TATAATAAA	CTATAAAACG	TTTTCAAGGA	AGGTAACGAT	ATGTCTGAAG	AAACAATTGA	10800
TTATGGACAA	GTGACAGGAA	TGGTGCATTC	GACAGAAAGC	TTTGGGTCAG	TAGATGGGCC	10860
TGGTATTCGC	TTTATTGTCT	TTTTGCAGGG	CTGTCACATG	CGTTGCCAGT	ATTGCCACAA	10920
CCCAGACACT	TGGGCTATGG	AGTCCAATAA	GTCACGTGAA	CGGACGGTAG	ATGATGTCTT	10980
GACAGAGGCC	TTGCGCTACC	GTGGTTTCTG	GGGAAATAAG	GGTGGGATTA	CAGTCAGTGG	11040
AGGAGAAGCT	CTCTTGCAGA	TTGATTTCCT	GATTGCTCTC	TTCACCAAGG	CTAAGGAACA	11100
AGGAATCCAC	TGTACCTTGG	ACACCTGTGC	TCTTCCTTTC	CGTAATAAAC	CACGTTACCT	11160
TGAGAAGTTT	GACAAACTCA	TGGCTGTCAC	TGACTTGGTT	CTTTTGGATA	TCAAGGAAAT	11220
CAACGAAGAA	CAGCACAAGA	TTGTCACTAG	ССАААССААТ	AAAAATATCT	TGGCTTGTGC	11280
CCAGTATCTA	TCAGATATTG	GAAAACCTGT	CTGGATTCGC	CACGTGCTAG	TTCCAGGATT	11340
GACAGACAGA	GATGATGACT	TGATTGAACT	TGGTAAGTTC	GTCAAGACCC	TCAAAAATGT	11400
TGATAAGTTT	GAAATTCTAC	CTTATCACAC	CATGGGTGAG	TTCAAGTGGC	GTGAACTTGG	11460
AATTCCATAT	TCCCTCGAAG	GAGTCAAACC	ACCAACAGCA	GATCGCGTCA	AGAACGCTAA	11520
ACAACTCATG	GATACCGAAA	GTTATCAAGA	TTATATGAAA	CGTGTACATG	GATAGAAAAG	11580
AAGCCTGATG	GAAACATCGG	GCTTTTGACT	TGCAAAAAGA	CTTAGCAAAT	CAGCTAAGCC	11640
TTTTTCTTCT	TATCTCGAAC	GTTGTTTTCC	AGCGTTGCGA	TTTTTGTGTT	TTTTCTTGCT	11700
TGTGATAGCA	GTTGGTTGTT	CAGGGGTAAC	GTCTTTTCGT	CCACTTGGTT	TAGAGAAAGC	11760
ACTTGCTTTT	GGTGGGTTCT	TGGCTAGTTC	TTCACGGACT	TTTTTGCGAA	GTTTTGGACG	11820
AACGATATAG	TTGACGATAA	ACTGTTGGAG	AATCATCATG	AAACCACCGA	CAACCCAGTA	11880
AAGTGTGACA	CTAGCTGGTG	AGAAGAGGGA	GAAGACGACG	ATCATGAGTG	GGCTCATGTA	11940
AATCATTTTC	TTGATTTGTT	CTCTTTGCAT	TTCATCTTCT	ACTCCGTGAA	GTGAAAGGAG	12000
CGATTGAAGA	TAGTAAAGGA	CACCAGCACA	GGCAACCAAA	ATCATACTTG	GAGAACCTAG	12060
AGGAATGCCT	AGGTAGCTTG	CTTGAGCAAC	CCCTTCAGTA	TGTTGGGCAG	CAAAGTAGAT	12120
AGCAGAGAAG	AAAGGCATTT	GAAGGAGGAT	AGGGAAACAT	CCTACACCGC	CAAACATGCT	12180
GATACCGTGC	TCTTTTTGAG	CAGCAAAGAG	AGCTTGTTGG	GCTTCGAGTT	TTTCTTCTTG	12240
AGTAGTCGCT	TCTTTGAGAC	GCGTTTGGTG	TGGCTCAAGG	ACGTGCTTGA	GGGCGTTCAT	12300
CTTTTCAGAG	TGAAGCGTTG	CCTTCCATGA	TTGGTAGATA	CCAAGTGGTA	AGATAATCAA	12360
GCGTACGATA	ATGGTTACGA	TAATGATAGC	GACACCAAAG	CCTAGACCTT	TATCAGTAGC	12420
GAAGTACTTG	ATGGCTTCAG	CCATAGGCGC	TCCGATCGTA	ттссааатаа	ATCCTGTTGG	12480

CTGACCTGTG	GTTTTATCGA	CATTGACACA	1006 GCCAGTCAAG	ACAAGCAACA	TAGCCACTCC	12540
CATAGCCGAG	AGTGCAAAAT	CGGGGT			٠	12566
(2) THEODY	.m.r.o.v. non .c.	10 TD NO. 1/	- 0			

(2) INFORMATION FOR SEQ ID NO: 150:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 5238 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 150:

TGACACTCTG TAGGATTGTC GTTAATTGAT TGCTCGTACT CTCTACAATA ACCACCAAAG 60 TAAAAACGAC ATAGAAAGAT AGCATCAGCT GTAGCCATAG CGCCTTTGAC ACCTTCTGGA 120 TGATTATGAG TTACCTCTGC AGAAAGACTC GTAAGTCCTC TAGATGATGG CCATATACCA 180 GTTTTCGCAT AAAAACCACA GTCCATGATC CAAGCACATG GAGAAATACG CATAGCTGAT 240 CCATTCCCAA AGCTATTATA AGGCTCACGG TTATCGCTGT TTAGCCATGC ATTAAACCGA 300 GCACCGTAAT CAGCATTCGG ATACATTCTG CCATATTTCT TCATCGCGTC AATGAAGTCA 360 TCTTTTTGTC CACCATTCAT AATTGCTTCT GCAACAGCAC AGGTCATAAC CGTGTCATCT 420 GTAAAAAAGC AGTCCTTCCG AAATAAAGGA AAGTCCTTTG TTTTGATATT GTTCCATTCG 480 TAAACAGAAC CGACAATATC TCCAATAATT GCTCCAAGCA TCAGATTCCT CCTTGTTCAT 540 TTTGATGCTT TTTATATTGG TTATCTACCA TATTTATTTT AGAAAATAAC ATCCTGTTGG 600 ATTITAAAAA TITCATTITI TICAAAATAG GGTTTTACCA TITCTTTCCA CCTAGCTCTA 660 TGAAAATTGA TTGATTTTAA AGGAGATAGG CCATAATTTC CCAATGCATA ACCATCATTT 720 ACTTCAACAA CAAGTGTTCT GCCATCGCGA GTAACACCGA TATCTAGTCC ATAAGCTATT 780 GGCGCATCTT TCCAACATGA TATCGCTTCA TCAATTACAC TTGCATCAAA TTGTGCATGA 840 TAATCACCTG TATAGGGTCG AACATCTAAT ACGCGACCAT CTAACACAAA ACAACGCCAT 900 TCAGCTATGA ATTCTACAAC CTCACTAATC CATATAGGAT AGTCGAAAGG TAGACCAATA 960 CCTATTAAAT CATGGGTTCC ATTAACAACT CTTCCAGTAA AGACTTTTGA ACCAGCTTTA 1020 GGCTTAATAA ATTTTCCCCA ATTATCAGGT ATATTCACAA TCTCTCCTAA AATACCAGCA 1080 TAAATCTTTC GACCATAAAA CTCTTTAAGC TCAATAGGAT AGTCATGAAC CGGAACGTTT 1140 AAGCCCATCA TTTTTAGTAA TGCTCTAGTC TCCATTATAT AATCTACAAC TATATCTTCA 1200 CTTGTTAACT CTTTTATTTC AGAAAAAGAT TGATATAAAA TAACTTCTTC TCCTTGTAAG 1260 TAGGCACCTA CTTGAGCATT GTATTTATTA ATTGAAACCT CACTTGGTAA TTTACTTTGT 1320

СТААТАТААА	CAACCATTTC	ATCACTCCTA	TATCACTAGT	GTTACACCAA	TTTGTAAAAA	1380
ATAATAGCAA	TTTTGCTCTT	ATTTTTTGA	GTAAATAGCC	CCCATAATAT	CATCGAAATA	1440
ATCAACGGTA	TTTAGGAGTA	ATTCAATAAC	CTGGGACTTT	GTTAGTCGCA	TTCCCCTTCT	1500
ATCTCTAGCA	ТСТТСТАСТА	AATTTTCAAG	TTTCTCTAGA	TTTTTATCAT	CCAAGCTAAT	1560
CATTATTCTA	TTTTTATCGG	TTGCCATTTT	CATCACCTCA	AGTTAATTCT	ATCACAGGTG	1620
TAACACTAGT	GTCAACTGGC	ТТТТАТААТА	CATTAGTTTA	AAAGTGGAGA	GGATTTTTAA	1680
CACAGTAACT	TTAAATCTTT	GGTATTAAAA	AATTTTCACA	ATATTTATAG	АААТААААТС	1740
TGTCTCAAAT	CAGTTATCAA	ATCTAGTATA	AATTATGAGC	GGCTACTCTA	ATACTTTCCC	1800
TCTAAACAAG	AAAAAGACTT	ACACTCAAGG	GTTTTCTTCC	CCCCCTTCGT	TATAACGTTT	1860
IGACTCTŢT Ţ	ACTAGCAAAG	GTATATACTC	ACAAGGAACT	TTGGTTGACT	ATTGAATCTC	1920
PCCAACTTCT	TCTTTAACAT	ATCCTTCTAC	ATCTTCAATC	TCTACAAACA	TTGGGTCTAA	1980
GTGACACAAG	AAATGCCAAA	CTTCGATCCC	TTTTTTTCTG	TAAAGAATCG	CTTCACCGTC	2040
PTCACTTCCG	AAAAAGCTTC	TGTCGATTTC	ATATCCGCGG	CTTTCTAAGA	AGTCTTTTGC	2100
PTTACGATAG	TTCGTTTCTC	TTGTTTCGAC	ATAGGCTTTA	ACTTCATGGT	TGTTAACGAC	2160
ATATGCATCA	ATTTTTGAAT	ATCCTTCGAT	CACTCTATCA	TTTTTGAGGG	ATAAATTTGA	2220
AATCTCTTTC	CAAATAATGT	TTACATTTTC	CTCAGGATCG	AACATAAATT	TAGATAAAGG	2280
AACAATATTT	CCGTTAAAAA	TAATTTCCAT	ATAATCCGGT	ATGTTTTTAG	GATTAAAATA	2340
CTCCACTTCA	AAACCATCTT	CTGTTTCCAG	AGTGTATCCC	GGGATTTGAG	CTACAAAGGC	2400
PTTCCCATCT	TCTATGGAAT	CAAATGCTAC	TAAATCTTTA	GAATAATCAT	TTTGGTACAA	2460
PTCCAATATA	ACCATCGATA	ATCTCTCCAT	TTTCATTATC	AGGCTAATGT	AAATAAGCAC	2520
STCACCTGAC	CAATTCAGGC	TCTCTGTATC	ATCTCATCAT	ATTTCCTACT	TACTTTACGA	2580
STCTTATACC	CAGAACACAC	CTTATCGACC	TTCGGTCTCA	CCTCGTCGCA	TTGGCTGAAC	2640
ATCTACTTTT	ACTTTGCTGA	TGCTTCÄACT	CGTACAAGCA	GTGATACCGC	CTCAGCGTGA	2700
rgcgtcagtg	GGACTCAAAA	GGTTCGGGGA	ACCTTTTGAG	GATTAACTAC	GTTTCTCTAA	2760
PAAACTTACA	CATTCAACTT	GTTCATCATT	GTCCAAACCT	ATGTTGAGAT	ТТТСТТСТАТ	2820
AATTGGTAGC	TTAAAAGTAA	TGGATTTTAG	CCATTGTCCG	TTAGATTGTT	TTTCTTCATA	2880
AACTTGAATT	TCAGAAATCA	AAGCTGAAAT	TAACTGCCTA	CGCTCTACAT	CATTCATGAC	2940
PTTATAGAGC	TTATCAAAAT	AGATCAGAAC	CTTATATATG	TTATCTCCTG	TAAGCTTTTC	3000
AGCTTCAATA	GTCTGTTTCT	ተተናርተተተ ተርናር	АТСААТТАСТ	GATGATTOTA	ልሞሞሮልሞናዋልር	3060

			1008			
TTTGTCATAC	ATACGATATA	GTCTATCATC	TAAATCCTGT	TTCCTTCTCT	TATAATGCTT	312
ATCTTCAACA	TCTAAATTAT	CTATTTCCTC	AATTAGCTTA	AACTTTGTAG	AATGACTCTT	318
TCTCAATTCC	TTTTGGTAAT	TATCTATTTC	TITTTCTATT	TCAGAGGTAT	CCACCTTCAT	324
GTTGATTTTT	TCTTGCATCA	TAGAAGCAAA	TTTCGGATTA	CTTACTATCT	TGACAATCAC	330
CTCTGCAACA	GCATCATCTA	ACAATTCTTC	TCTAATTTGC	TTACTGAATG	TACACTTATT	336
ACCTCTTATC	ATCTGCCTAT	GGTTACAACC	ATAGTAATAA	AAATCTTTAT	ACTTTGTGCC	342
ATCTTTCTTT	TTCTTGATAC	ACTTGTTCCC	AAACATTCCC	ACTCCACATA	TCGGGCATTT	348
TACAATTCCA	GAAAGCAAGT	GTGTGCGTGT	ATCTTTTCCT	TTATTCACAT	GCTCATATTT	354
CTTTGCTTGA	GATTTTAGCT	TAACCTGAGC	AGCTTGCCAA	ACTTCATCGG	AAACTATAGC	360
TTCATGTATC	CCTTCAGATA	TTAGATATTC	ATCTTGTTCA	ACCTGCTTAT	ATTCATTTCT	366
TGTACCATGA	ACTTTTTCTA	AAGTTCTTCT	TCCAAATGCT	ATTTTCCCAT	TATATACAGG	372
АТТСТТТААТ	ATCTTTCTTA	TAAGACCTGC	ATCAAACAAA	GGATTCTTAC	CATTCTGTCT	378
TGGGATTTTT	CTAATTCCAT	GATTCTCTAA	GTATTTAGAT	ATCCCATTGG	CTCCTATCGT	384
AGTATTTACA	TACTGGTCGA	AAATCGTTCT	TATTGCAACT	GCCTCTTCCT	САТТТАТААА	390
CAGCTTGCCG	TCTTCAAGTT	TATATCCATA	CGGAGCAAAG	CCACCATTCC	ATTTTCCTTC	396
CCCTGCTTTT	TGAATGCGAC	CTTCCATTGT	TTGAATACTG	ATGTTTTCTC	TTTCTATTTC	402
AGCCACAGCT	GATAAAACAG	AAATCATTAG	TTTCCCAGCA	TCTTTAGATG	AATCAATGCC	408
ATCTTCAACG	CAGATAAGAT	TAACTCCATA	ATCCTGCATT	ATATGAAGTG	TAGAAAGAAC	414
ATCAGCGGCA	TTTCTTGCAA	ATCTTGATAA	CTTAAACACA	AGAACAAAAG	ATACTCCATC	420
TTTTCCAGAT	TTTATATCTT	CCATCATTCG	ATTGAACTGT	ATTCTACCTT	CAATAGACTT	4260
GTCAGACTTC	CCGGCATCTT	CATACTCTCC	AACAATTTCA	TAATCGTTGT	AAATAGCAAA	4320
AGCTTTCATT	CGTGATTTTT	GTGCCTCTAA	CGAATACCCC	TCTATCTGTA	TTGACGTAGA	4386
TACTCGTGTA	TAGAGGTATA	CTTTTATTTT	TTCTTTTGAC	ATAGTATTAA	CCTCAATATA	4440
ATTTTTCTAT	ATCATATATA	ATTTTTTAA	TTTAAGTTTG	GACTATCATT	TCAAGTATAT	4500
TATAACACTT	TTATTAGTCC	GTCTCAATTT	GTGTTTTTGC	CATGTCAAAA	CTATTTTTCA	4560
TCTCTTGATT	TTTTGCTGGC	GTTGGATCGG	GTAGATTATC	талатстала	GCACCAGCAT	4620
ATTTTGCAAT	CAGATTTGCT	ATTAAATCAG	CCAATCCATT	CCAGTCATTG	TCCAATATAT	4680
ACCTCCTCTA	AAGTTTTATA	TCTAATAATT	ATTTGTTTAA	TTAAGTTTTT	TGACATTGAC	4740
AAGTGCTTTG	GATTAGCAAC	ATAGGAATCT	CACTTCCGCC	TCTATTCCGG	ATGAGCCGGC	4800
מיזירים מכירייויים	CARCTATICAT	#1000000000000000000000000000000000000	mmcmmc v m v c	CCCAMACCCM	N MCCCOMCCOM	400

1009

ATATTCAAAC	TCTTACTTAT	CGCTCACTTT	CTTTTTGCTT	AGCAGAACTT	TTTTTGCCGA	4920
ATTATTCAGC	CGAAAGATCT	TGACGGATAG	GTTATTACGC	TCCAAAAATA	ATTAACGTCT	4980
TGTCTTGGTC	TATTCAATTG	TTAAGGTTCA	AAATTTATCG	AGAGTTATTA	ATCTTTTAA	5040
AATTTGACCA	TCAGAAAATA	TTTATCTTGA	TGTAACAAAA	ТТСТАТАААТ	TACCCTCTTA	5100
TACTTAACAG	TGAAAAGAAG	TCTTTCTTGG	TAACCAATTT	TGAAATAGAA	TTTGCTTATA	5160
TAAAAAGGTC	CAATTCCCAC	TGCATAAATA	GCAGTGAAAA	TTAGACCCTC	TTGGTAACTG	5220
тсатстаааа	GTCTTCTA					5238

(2) INFORMATION FOR SEQ ID NO: 151:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 13425 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 151:

GACGATTTAC	GAAGAATCGA	ACAAGAACCT	GCTCCTATCA	ATTCCCAACC	TCTATCTCTA	60
AAATCTTGCA	GTTCATGCTT	ATACTTTTTT	AAGAAATCTA	GAATCATAGA	TACGGTAGAT	120
GACATCGTCT	GGTTGACATT	GGTCAAAATA	GAACAAACCA	AAACGACTCG	TTCTATACCT .	180
CCAACCTTTC	AAATGCATCT	CATGTAAATG	TTCTTCTTCC	TTGTCCAAAT	CAACAATGGT	240
GAAAATCCGA	AATTCTACTC	TGCTATTCAT	TGTCTTACCC	CAAAATTAGA	AAACATGCCT	300
GGCGTTATTT	ATTAGATAAT	TCTTTCCACT	TTTGACTCAA	ТСТССААААА	ATATAAGAAA	360
TCTGAATCGC	AAAAACTATC	AATAAAACCC	AATCTATTAT	GAAAATCAAA	AACACTTTCC	420
AACTGAAAGA	ACTACCTCCA	GTGACAAACT	TTGAGAAAAA	CGGTAGTAGA	GCTAAAAAGA	480
GAAATAAAAT	AGGAAGCATC	CGCATTGTTA	AAATCCGTTT	GGCATAAAAA	AATCTTTATT	540
TAAACGAAAA	TATTATGGCA	AAATTTACGC	CAGTTTTTGA	ACGGCTGATG	TAGATATTTT	600
ATACTTTCAA	aatgtttaaa	TGTGATTATT	TATTTTTGAA	AAATAGATCA	CCAGCCCGAC	660
TGAAAGTGCT	TATAGAATGA	TAATAAGTCG	CCTGCCGAAA	ACAGCGAAAA	ATAGCGGTGT	720
TATGCGGAGA	TAATCTGACG	CGATGCGAAA	GTATATTGCA	TACTTATTTT	CAACAATTTA	780
GCAGAGTATT	TTTATAAGTG	TGATATAATA	GAAGTATAAT	TTGTTCTGAT	AGTTTATTTT	840
ATGGAGAAGT	AGATTTTTAG	AATGCGGAGG	GTTCAATATG	GTTGAGTTTA	TAAAGTCTAA	900
GAAAGAAATG	AGTGAGGAGG	ATATTAAAGC	AAATTTCATC	ACTCCTGCTA	TTGTATCCAA	960

			1010			
AGGATGGAAA	AATGGTGAGC	ATATCGCTTA	CGAAGAATAC	TTCACTGATG	GTCGAATTGA	1020
AGTTAGAGGA	GATAAGGCTC	GTCGTAAAGA	AGGAAAAAA	TCAGACTATT	CACTGTATTA	1080
CCAATTTGGA	ACTCGAATTG	CAATTGTTGA	GGCAAAGGAT	AATAAACACA	GCGTTCGAGC	1140
AGGATTACAA	CAAGCTATTG	AATATGGAGA	GATTTTAGAT	GTTCCATTTG	TTTATTCTTC	1200
GAATGGTGAT	GGCTTTATTG	AACACGACCG	TATCACGAGA	GAAGAACGTG	AGCTGGAGTT	1260
AGACGAATTC	CCTACTCGTG	AAGAATTATT	TTCTCGTATG	ACGAAGGAAA	AAGGATTGAC	1320
GTACGAAATT	ACAGAAGCTA	TCTCAACTCC	ATACTATACA	GACGCCTTCT	CAATGAAAAC	1380
GCCACGCTAT	TATCAGCAAA	TAGCTATCAA	CCGTACTATT	GAAACAGTTG	CCAGAGGACA	1440
AAAACGAGTA	ATGTTTGTGA	TGGCAACAGG	AACGGGGAAA	ACGTTCATGG	CTTTTCAAAT	1500
TATTCATCGC	CTTCGAAAAG	CTGGTTTGGC	TAAACGAGTT	TTATTCTTAG	CAGATAGAAA	1560
CATCTTAGTA	GACCAAACGA	TGGCTGAAGA	CTTTAGGCCA	TTCGAAAAGG	TAATGACGAA	1620
AATTACACCA	AAACTTTTGA	CTGCTCCTGA	TAAATTAAAA	TCTTTTGAAA	TTTATCTAGG	1680
GCTTTATCAG	CAACTAACTG	GTGAAGATGG	AACTGAAACA	САТТАТСААА	AATTTGACAA	1740
AGACTTCTTT	GATTTAATCG	TAATTGATGA	AGCGCACCGT	GGTTCAGCTA	AGGAAAACAG	1800
TAACTGGCGT	AAGGTAATTG	ATTATTTCAG	TTCTGCGACA	CAGATTGGGA	TGACCGCTAC	1860
TCTTAAAGAA	ACCAAGAATG	CTTCCAATAC	GGAATACTTT	GGTGAGCCAA	TCTATACTTA	1920
TAGTTTAAAA	CAGGGAATCG	AGGATGGTTT	TTTGGCTCCA	TATCGTGTTA	TGAGGGTTAA	1980
TTTAGATGTG	GATGTGGATG	GTTATCGTCC	AGAAACTGGA	AAAGTTGATG	CTAACGGACA	2040
ATTAATAGAA	GATAGGTACT	ACGGCAGGAA	AGATTTTGAT	AAAACCATTG	TCATTGATGA	2100
TAGAACGCAA	AGAGTTGCCA	AGTTTGTTTC	TGATTATATG	AAGCAAAACA	ATGCACGATT	2160
TGATAAAACA	ATTGTTTTTT	GTGTTGATAT	TGACCATGCC	GAGCGAATGC	GTGCTGCACT	2220
TGTAAAAGAG	AATCTAGACT	TAGTCCAAGA	AGACTATCGT	TATGTCATGC	AAGTAACTGG	2280
TGACAACGCT	GAAGGAAAAG	CTCAACTGGA	TAACTTTATG	GATGTCAATT	CTAATTTCC	2340
CGCTATTGTA	ACAACGTCTA	AATTATTAAC	GACAGGAGTT	AATGCTAAAA	CATGTCGTTT	2400
GATTGTTTTA	GACTCTAATA	TCCAATCCAT	GACTGAATTT	AAACAAATTA	TTGGTCGTGG	2460
CACACGTCTT	TATCCTCAAA	AGGGGAAAGA	ATTTTTTACG	ATTATTGATT	TTCGAAATGT	2520
TACCAATTIG	TTTGCTGACC	CTGATTTTGA	TGGTGATCCA	GTGAAGGTGC	TAGAAACAGG	2580
TGCGAAAACA	GTCAGTGGTT	CTACGCCCGG	TTTCGTAGAT	GAGGAAGGTG	ACCCAGTAGA	2640
AAAATATATC	GTTACAGACA	AGCAGGTTAC	CATTCTTAAT	TCTACTGTTC	AAGTATTGGA	2700
TGAAAACGGG	AAACTGATTA	CCGAAAGCCT	GACCGACTAC	ACTCGAAAGA	ATATCTTAGG	2760

TAGCTACGCC	ACTTTGAACG	ATTTTATCAC	AGTTTGGCAT	ACGGCAGATA	AGAAGAAGCT	2820
TATCTTAGAC	GAACTTTATA	AAAAAGGAGT	TTATCTAGAT	GCTATTCGAG	AGTCGGAGGG	2880
AATATCAGAA	CAAGAAATCG	ATGATTTTGA	TTTACTCCTA	AAACTTGCCT	ATGGTCAAAA	2940
AGAATTAACC	AAAACGGAAC	GTATCAATAA	АСТСАААСАА	AGCGGATATT	TATATAAATA -	3000
TAGTGAGGAA	GCGCGTGCTG	TTTTGGAAAT	TTTACTGAAC	AAATACATGG	ATAAAGGTAT	3060
TGGAGAACTC	GAAAGCATTG	AAACATTAAA	ACTTCCAGAA	TTTCAGATAT	ATGGTGGAAC	3120
CTTCAAAATC	ATCAATACTT	ATTTTGGAGA	TAAAAAACGA	TATTTACAAG	CAATTAAAGA	3180
ATTGGAGCAA	GAGCTATTTA	CAGTAGCTTA	ATGAAAGGAA	AGTATGTCAA	TTACATCATT	3240
TGTAAAAAGA	ATTCAAGATA	TCACTCGAAA	CGATGCTGGT	GTTAATGGTG	ATGCTCAACG	3300
TATTGAGCAA	ATGTCTTGGT	TATTATTCTT	AAAAATTTAT	GATAGCCGTG	AAATGGTTTG	3360
GGAATTAGAA	GAAGACGAGT	ATGAGTCAAT	TATCCCAGAG	GAATTAAAAT	GGCGAAATTG	3420
GGCTCATGCT	CAAAATGGGG	AACGGGTATT	GACAGGCGAT	GAATTACTTG	ATTTTGTCAA	3480
TAACAAGTTA	TTCAAAGAGT	TGAAAGAGCT	TGAAATAACT	TCAAATATGC	CTATTCGAAA	3540
AACGATTGTT	AAATCAGCTT	TTGAAGATGC	GAACAACTAT	ATGAAAAATG	GCGTCTTGTT	3600
ACGCCAAGTC	ATCAATGTTA	TTGATGAAGT	TGATTTCAAT	AGCCCTGAAG	ATCGTCATTC	3660
GTTT AA TGAT	ATTTACGAAA	AAATTCTTAA	AGATATTCAA	AATGCTGGGA	ACTCAGGAGA	3720
				GTTCTTGACC		3780
AGAATCAATG	GCAGACCTTG	CTTGCGGAAC	AGGAGGCTTC	TTGACTTCGA	CTCTGAACCG	3840
TTAAGTAGT	CAACGTAAAA	CTAGTGAAGA	TACCAAAAA	TATAATACAG	CTGTTTTTGG	3900
				AATCTGTTTC		3960
				AATGTTCGTG		4020
				GGAGGGTCAG		4080
				ACAGCTGATT		4140
					CTGATGGTTT	4200
				CTGGTAGATG		4260
				TATACAGGAA		4320
				TGGTTTTATC		4380
•		•		AAGTCAGAAC		4440
CTTCGTGAC	TGGTGGGAAA	ATCGTGAAGA	GATTCTGGAA	GGTAAGTTCT	ACAAATCTAA	4500

			1012			
ATCATTTACA	CCTAGTGAAT	TGGCTGAGTT	GAATTATAAT	TTAGACCAGT	GTGACTTTCC	4560
AAAAGAGGAA	GAGGAAATCT	TAAATCCCTT	TGAGTTGATT	CAGAATTATC	AAGCGGAAAG	4620
AGCAACTTTA	AATCATAAGA	TTGATAATGT	ATTAGCTGAT	ATTTTGCAGT	TGTTGGAGGA	4680
CAAATAATGA	CACCAGAACA	ACTTAAAGCA	AGTATTCTCC	AAAGAGCGAT	GGAAGGGAAA	4740
TTAGTGCCGC	AAAATCCCAA	TGACGAACCT	GCAAGTGAAT	TATTAAAGAG	AATTAAAGCT	4800
GAAAAAGAAA	AACTTATCAG	TGAAGGAAAA	ATCAAACGAG	ATAAAAAGGA	AACTGAGATA	4860
TTTCGTGGTG	ATGATGGGAA	ACATTATGGG	AAGTTTGCTG	ATGGAAGCAC	TCAAGAAATT	4920
GATGTTCCTT	ATGATATTCC	TGATACTTGG	GAGTGGGTGA	GGTTTTCTAC	ATTGGTTGAA	4980
ATTGTCAGAG	GTGGCTCTCC	ACGACCAATC	AAaGATTATC	TTACTTCTGA	AGTAGATGGA	5040
ATAAATTGGA	TAAAAATAGG	TGATACTGAA	AAGGGTGAAA	AGTATATAAA	TAATGTTAAA	5100
GAAAAAATCA	AAAAATCAGG	GCTTAACAAA	ACTAGATTTG	TAAAAAAAGG	TACATTTTTG	5160
TTAACTAATT	CTATGAGTTT	TGGTAGACCT	TATATTTTGA	ATGTTGATGG	TGCAATACAC	5220
GATGGATGGT	TGGCTATTTC	GAACTATGAA	AACTCATTAA	ATAAAGATTA	CCTATTCTAT .	5280
ATTCTTTCAT	CAAATGTAGT	TTATTCTCAA	TTTCTATCTC	TAATTAGTGG	AGCTGTTGTG	5340
AAAAACTTGA	ATAGTGATAA	AGTTGCTTCT	ATTCTTATCC	CTCTCCCCCC	ACTATCCGAA	5400
CAACAACGAA	TAGTAGAAGC	AATCGAATCA	GCTTTAGAAA	AAGTAGATGA	ATATGCTGAA	5460
AGTTATAATA	GACTAGAACA	GCTAGATAAA	GAATTTCCAG	АТАААСТААА	AAAATCTATT	5520
CTTCAATATG	CTATGCAAGG	AAAATTAGTT	GAACAAGACC	CAAATGATGA	ATCAGTCGAA	5580
GTTTTACTTG	AAAAAATACG	AGCAGAAAAA	САААААСТСТ	TTGAAGAAGG	CAAGATTAAA	5640
AAGAAAGATT	TGGACATTTC	TATTGTTTCC	CAAGGAGATG	ATAACTCTTA	TTATGGGAAT	5700
ATACCTATGA	ATTGGGTTGT	TATAAAAATA	AAAGATATTT	TTTCAATAAA	TACAGGTCTT	5760
PCTTACAAGA	AGGGCGATTT	AAGCATTAAT	AATAAAGGTG	TTAGAATTAT	ACGTGGTGGT	5820
AATATTAAGC	CTTTAGAATT	TTCTCTGTTG	GATAATGATT	ACTACATTGA	TACACAATTC	5880
ATCTCCTCTG	AGCAAGTTTA	TTTAAAACAT	AATCAGCTAA	TAACACCTGT	ATCAACCTCT	5940
TAGAACATA	TTGGAAAGTT	TGCAAGAATC	GATAAAGACT	ATGATGGTGT	TGTGGCTGGT	6000
GGATTTATTT	TCCAATTAAC	ACCATTCGAA	AGTTCAGAGA	TTATTTCAAA	ATTTCTATTA	6060
PTTAACTTGT	CCTCTCCGTT	ATTTTATAAA	CAATTGAAAG	CAATAACTAA	ACTATCAGGT	6120
CAAGCTTTAT	ATAATATTCC	TAAAACTACA	CTGAGCGAGC	TATTAATTCC	GTTAGCTCCT	6180
PTTGAGGAAC	AGGAACTTAT	TACTCAAAAA	GTTGAGAAAC	TTTTTGAAAA	AGTAAATCAA	6240
CTTTGAAAAT	GATTCTTTTC	ATCTCTTCAT	GATTAGAAAT	AGGGATTAAT	AATTCGGAGA	6300

TACTGGTACT	ATTTAATGTT	TTCCCTTTGA	TAGCATCTTT	TGAATCACCT	AAAGTAGAGA	6360
TAAGTGGCAA	AAATATCATT	AAGTAATCTC	TGATAATATT	ТТСТТТАТТА	GCATAGGGGA	6420
ATATCGATAT	AATGGCTTCA	TTATGAGTGG	CAGGAATATC	CAATATGGCA	ACTTTTCCAA	6480
TAGATAATTT	AAAACTCATT	AATAAAGTTC	CTTTAGGTGA	AATGTCTATT	TTCTTTGATT	6540
TTAATGCTAA	TTTAGAAATA	GATTCTCTCG	CATTAGTTAC	ATAACCAGAT	ATAGGCATAT	6600
CTGATATAGA	TACCCAAGGT	ATTTCAGTTC	CCCAAAAAGT	AGCTTCACTG	CGTGGAGGAG	6660
TTTTTCCTAT	TCTGAAGTTA	ACTAGGCTAG	CAAATTTAAT	ATATCTCCAT	GCTTCTGGGA	6720
TTTCATATAT	AGGATAAGAG	GTTGTTTCGT	CTTTGTTCCC	ATAATAAGAG	CCATAATCAC	6780
AAAAATAGCA	GGTAGTCAGT	TTGACCACCT	GTTATTTTT	ACCAATTAAC	AATTTTATCT	6840
ACAATATTTT	GTTGTTCAGT	AGCTGTTTTC	CTTAGATAAA	TTCGAGTAGT	TTCTATACTT	6900
TCGTGTCCCA	TCAAATCTGC	AAGCAAGGCA	ATATCATTAT	ACTTCGCTAA	AAAATTCTTA	6960
GCAAATAAAT	GCCTAAAAGA	ATGAGGGTAA	ATTACGTTAG	GATTCATTTT	GTATTTATCA	7020
GCATAATTTT	TTAACTGTTG	AGCAACTCCT	CTTGCTGTAA	TTGGTTCGTT	AAATTTATTC	7080
ТАЛЛТАЛЛА	AACCACTTCG	GCGATTTTCT	GATTCTAACC	AACTAAGACA	ACTATTTCTT	7140
AATTTTTTAG	GAATGTACAG	TCTACGAATT	TTACCACCTT	TTGAGTAAAT	GTCAAAATAA	7200
CCGATTTCTA	CATGCTCTAC	TTTTAGTTTA	ATAAGTTCAC	TTACACGAGC	CCCAGTTGCA	7260
CCTAAAAACC	AAACGACAAA	ATGCCATTTT	AAAATACCAT	СТТТТТТСАА	ACTACGTTTA	7320
AGAAAAAGGT	AATCAGCATG	GCTAATGACA	TCTTCTAAAA	ACGGTTTTTG	CTGTACTTTG	7380
ACAAATTTTA	ATTTCAAATC	ATCATGACCA	ATAAAAGCCA	GATATTTATT	TACTCCTTGT	7440
AGTCGCAAAT	TGACAGTTTT	AGGTTTAAAA	TTGTCTAATA	AATATCCTTT	GTATTCAAAT	7500
AAATCTTCCA	TTTTGAGTTC	GTAATTCTCC	AAGAAAAATC	GAACACCATA	AAGGTACGAA	7560
CGCACAGTAT	TTTCAGCTAA	ACCAGCTTTC	TTCAAATGTA	ATTCAAAATC	TTTCAACGTA	7620
AAACTCCTAT	CTTATGTTTG	ATAGAAATTC	CACCGCACGT	AAAACTATTA	ТАСТАААТТА	7680
GTGCGTCAAT	ATGGGCGAAA	AATTGTTCGA	TTTTATCAAC	GATTCTGGAT	TGTTCAGGAA	7740
GGGGTGGGAG	GGGGATTAAA	TATTCTTTTA	TAGTTTTCGT	TAATAATTCT	TTTTGTTTTG	7800
TACTACCCGA	CGCTTTTTCT	TCAATAACTG	ACTGAACAAT	AGGAGAGGAA	AGAAAATTAT	7860
AGATGAAATG	GCAATTAATA	ACCCCCGATA	AGACTCTTAT	AACTGTAACA	TGGCTATCTG	7920
CAACAGCCCA	GCCATAAGGA	TTTTTATTTT	CATGGTAAAT	AGCTAATCGT	CCTAACGTAC	7980
CTAGACCTGT	TGAATTCCAC	ATTAAATCAC	CATCTCTTAG	TAATCTTTCT	TTCTGGTAAC	8040

TATGAACTGT	TTCGGGATCA	ATAAATCTTG	1014 CTAAGTCAAT	AGAAAAGCCA	GACCATTGAT	8100
		GGGTATATAG				8160
		TCGTTTAACC			_	8220
AAGGTACTTC	CTCATAATAA	GAGTTATCAT	CTCCTTGGGA	AACAATAGAA	ATGTCCAAAT	8280
CTTTCTTTTT	AATCTTGCCT	TCTTCAAAGA	GTTTTTGTTT	TTCTGCTCGT	ATTTTTCAA	8340
GTAAAACTTC	GACTGATTCA	TCATTTGGGT	CTTGTTCAAC	TAATTTTCCT	TGCATAGCAT	8400
ATTGAAGAAT	AGATTTTTTT	AGTTTATCTG	GAAATTCTTT	ATCTAGCTGT	TCTAGTCTAT	8460
TATAACTTTC	AGCATATTCA	TCTACTTTTT	CTAAAGCTGA	TTCGATTGCT	TCTACTATTC	8520
GTTGTTGTTC	GGATAGTGGG	GGGAGAGCAA	TTAATAATAG	ATTAAAATTA	TAATCATTGA	8580
TTGCAGGATA	ACTTGTTCCA	GTAGATTTAT	TATTAACACG	ATTGATAAAA	TTATCTGATA	8640
АТАААТААТА	ТТТСАААТАТ	GTTTCGTTAA	GTAAAGTATC	СААААСААТА	AATGCTGTAC	8700
TAGCTATCAA	ATACTCTTTA	AGTTCTCTAA	CTACAGCAAT	ATTTTTTAGA	TATGGTCTAA	8760
CTGTTGAAAA	TAAGACACTA	TTCTGCGAAA	CTAATTTTCT	AGCACGGGAA	GGCGCTTGTT	8820
CAGGTGAAAG	ATATTGTAGA	TTTTTGTAGT	TGATTATGTT	СТТТТТТСТА	TCAATACTAG	8880
ACGTATCTAT	ATACCTAAAG	GATTTCTCTG	GCTTATTTTG	CCCAAAATTC	СААТАААТТС	8940
ATTTTATCCT	CACCCACTCC	CAAGTATCAG	GAATATCATA	AGGAACATCA	ATTTCTTGAG	9000
TGCTTCCATC	AGCAAACTTC	CCATAATGTT	TCTTATGTGC	TTCAAGTATA	TAAAAAGGCG	9060
тааааатасс	CCTATAGATA	ATGGGGTTGA	AATAGGTTTA	TTGTTGATGA	GATTGTAGAT	9120
AATTCAATTT	TTTACTTCCA	ATCGAATATT	CAAATCCTCC,	ACCTTTTCTG	CCTGTAATTG	9180
ттсатсатаа	AATTCAATAT	CTTCAGGATT	TTCCCCTTGG	CAACCTÇGGC	AGAAATATTC	9240
TTCCGCTCGA	TCAGGATTCA	AAAATCGACA	AGCACAAACA	AAACAGTCGC	CATCATCATT	9300
TATTGAGATA	ATATAGTAGA	TTGAAATAAG	ATGTAAACAA	ATCGATTAGG	AAAGTTAAAT	9360
TAGTTTCTAG	AAATTTTTAG	CAGATGTAGT	GTACTATTCT	AGTCTCAATT	TACTATGGCT	9420
TCAAATATAT	CTTTCGAAAA	AATATTTACA	GATGTGTAAT	TTTGAAGCTT	GCAAAAGTTA	9480
GTAAACTTGT	AGATTTCGAT	TTGAAGTAAC	TTGTTTTCTT	GCCCGATATT	GTTTTTGAAA	9540
TTGAATTTTT	CCATAGTGAC	TCCTTAATTT	TCTTCTACAC	GTCTGATGAT	АААТСТААТТ	9600
CGCAAAAGAG	TCAAGAGGAT	TTTTCGAAAA	ATAAATAGCG	ACCGAAATCG	CTATTTTAAG	9660
GGTTATAGGT	ATTTGATGGC	TTAGACTGCT	GTGTGACTGT	TTACCCACAG	GCAATCTTTC	9720
ТТСТАТАТТА	GTATTAGTAA	AGGTCTAAAT	ААТТАТСААТ	TTCCCATTGT	GAAACGAAGG	9780
TTGCATAACT	TGCCCATTCG	ATTCGTTTGG	CTTCAAGGAA	GCTAGTATAG	ATGTGATCTC	9840
						0

9900	TGAAGAGTTG	CAAAGCGTTG	TCAAAGCTTT	TCATCTTCTG	TTTAACCACT	CGAGAGCAGC
9960	TAGATATTTT	TGTCATGATG	GCTCTTCTGC	GCTTCCTTGC	TGTAATACCA	ATGGAAGGTC
10020	ACTTCCAAAA	ATACAAACCA	TTTCAATACC	TCGATTTTAT	AGCTGGTGCT	CTTCGATAGG
10080	TCAAGACGAG	TGAACGCAAC	TTGGATCCAC	GGĆTTCGCCA	agcaacgtaja	GAACAGCCAT
10140	CCAGCCCAAG	ACGGTTACGA	CAAGTGGCGA	GGTACGCGCA	ACGTGAAGCA	TTCCCATACC
10200	ACTGTTGGGT	GTATGAGTTA	CCAAACGTTT	TAACCTGGAA	AGGCGCTTCA	CAATGTAAAC
10260	TGGTAAGCTG	GCCTAGGAAA	TGATCAAACC	TAAGCATGCT	AGTATAGTTG	rcatgatggc
10320	TTTCCTTCTG	GAAGGCGTTA	TTGGATCAAA	TTTGGATCAT	CTGCATTCCT	TTTCTGACAA
10380	TTTGGCTTCG	AATACCAAAT	CTGATCCAGC	CAGTGCATAC	GGACATATTA	CATCAAACAA
10440	AGCTTAAAGA	TTTAACAACA	GAGCAATGGT	CCGTGTTTGC	TGCGTAAAGT	CATAAATGT
10500	TCATGCTGTC	AAAGTCAATC	CATCGTACTT	CGGAGAACTT	ATCACAAGCA	TTTGAATCTT
10560	AAGACATTCA	CATTTTGGTC	CTTCAAATCC	CTCGCTTCTA	CTCGTGGTGA	CAACCGCAAC
10620	TAGCCACCCT	CAAGTCAAAG	CAGTAGGTGC	TCCGCAAGGT	ACGTGTGTTG	CAATCTCACG
10680	AAGAATTCTG	CTTAAATAGG	TTTCATCCAA	GGGTCCCCAT	TTCAAGTGTT	rgtcattcac
10740	AGAGCTCGTT	CATGTGACGA	CAACTTCTTC	GATTTGAATC	AAGGTTGAAG	GCTCTGGACC
10800	ACATCACAGA	TGTTGTATAG	GTTCACCTTC	CCCGCAAATG	ACGAGGGTCA	PCAAATTACC
10860	GTATCCAAGT	GACTGTCCAT	CCCAAGGGAA	TTTTCATCTC	AACACTTCCA	CAGACCTGC
10920	GAAGATCCAT	ACCTTCAATA	TACGTACAAA	GACTCATTGA	GTACATATCC	CCGGGTACAA
10980	GGAATTTCGA	ATCTGTAGCA	CTAACTGTTC	AAGACCTTAT	CTTGTTCGAC	CAAACATAAC
11040	ACATTTTTTT	AATAAAGGTA	ACATAAGACG	ATATCTGAGA	GGTTCCCAAA	CGTTTTTCAT
11100	CTTAATCTAT	AAGTTTTCTC	TGATTGGCAT	TCTGCAGCTG	ACGACGAATA	CCTTGACTTC
11160	AAACGCCCCT	TACTGAAGCA	AAGGTGACTG	CCGCGACCAA	GGTTGCCTAA	GACTACTTGC
11220	GCTTTCTTGG	CTGACTAACC	GTACTTCAGT	AGTGCACGAC	TTCATTGTGA	GTTGGAGGAG
11280	CCTTCAGAGA	GATATTATAA	TAATGGCAGC	TATTTTTTCT	ACGTTCAGCA	ATTTCGCTTC
11340	CGACGATTTC	GGAATACATG	TGTCATTCAA	AGACGATCCA	GATTTCAAGC	PATAATCTTT
11400	TGACGCGCCG	ATAACGAATC	GATCTTCATA	ATCAACTCTT	ATCGGGCTTG	CTTCGTTTCG
11460	CGGCGAAATT	AGCCATATTT	TAGGAAAAAC	ACACTGCCGA	CAACTTCATA	ATAGATCGGT
11520	AAAGACAAAC	TAGTCTAAAA	CTGTCTATTA	TTCCTTCTTT	CATTTACAAT	CTTTTTCCTT
11580	AAAGAGACGA	TTTTCTCTAA	TATTTTTCTT	AATGTAACAT	AATGTTATAA	GTCAATTGAT

			1016			
ATACGATCAA	TATCGTAATT	TACGATAATT	GCGACAAAAA	CTCCCATAAA	CGTTTCTAAT	11640
ACACGCACAA	ACACGTACAA	AATTGTCTCA	CCACTTGGAA	TTGATAGGGT	AATGATTAAC	11700
ATAGCTGCTA	CACCACCAAT	AACCCCTGCT	TTGTTATTCA	TGGCTACATT	TGTCATAATG	11760
GTTAACATGG	TGCAGATTGG	AACAACTACC	AAGGTCACCC	AAAAGGCTTC	GTGGAAAAAG	11820
GTATTTAATA	AGAAGAAGAC	CAAGGCAŢAG	AGTCCACCGA	TACTATTTCC	TAGAATACGC	11880
GAAGTCCCAA	AATGAACACT	CTCATCAAAA	CTCTCCCTCA	GGCTAAAAAC	GGCTGTCAAA	11940
GCACCAATTT	GAAGACCTTT	CCAGCCAAAA	AAGCCAAAAA	TCAAGAGAAC	TAGAAAAACA	12000
GCAATACCTG	TTTTAAAGGT	TCGCATACCA	AGTTTGAACT	GGGATTTATC	GAATTTATAT	12060
TTTTTAAAAT	AACTCATAAT	CTCAACTTTC	TATTTCCATT	TTATCATAAA	TCGGTGATTT	12120
TTATGAGTAA	TAGTTGAGAG	GAAGCGTTTT	TATTTTAAGC	AAAAGAAAAG	AGGAACTTTC	12180
ATCCCTCTCT	TCTTTGATTT	АТТТАТАААА	TCTTATTTTT	CTGTCAAGGC	TGCAAGTCCT	12240
GGAAGAACCT	TACCTTCAAG	AAGTTCCATT	GATGCTCCAC	CACCCGTACT	AATCCATGAG	12300
AACTTGTCTG	CACGGCCAAG	GTTAATCGCT	GCGGCAGCTG	AGTCACCACC	ACCGATGATT	12360
GATTTAACTC	CTGGTTGTTT	CACGATAGCG	TCCATCACAC	CGATTGTACC	AGCTTGGAAA	12420
TCTGGGTTTT	CAAATACACC	CATAGGTCCG	TTCCATACGA	CTGTTTTGGC	ACCAGTCAAA	12480
GCTTCGTCAA	ATTTGGCGAT	AGATTTTGGA	CCGATGTCAA	GACCAAGGAA	GCCTTCAGAA	12540
ACTGCTTCAC	CTTCAGTGTC	ACGCACTTCA	GTGTAACCAG	CAAATGCGTT	AGCTTCTTTT	12600
GAGTCAACTG	GCAAGATCAA	TTTACCATTT	GCTTTTTCAA	GAAGAGCTTT	CGCAACATCC	12660
AATTTGTCTT	CTTCTACAAG	TGAGTTACCG	ATTTCGATAC	CTTGTGCTTT	GTAGAATGTG	12720
TAAGTCATCC	CACCACCGAT	AAGGACGTTA	TCAGCTTTTT	CAAGCAAGTT	TTCGATAACA	12780
CCGATCTTGT	CTGAAACTTT	TGAACCACCA	AGGATAGCCA	CGAATGGACG	TTCTGGAGTT	12840
TCAACTGCTT	CTTGGATGTA	GGCAATTTCG	TTTTCAAGAA	GGAAACCAGC	AACTGCTTTT	12900
TCAACGTTTG	CTGAGATACC	AACGTTAGAT	GCGTGTGCAC	GGTGAGCTGT	ACCGAATGCA	12960
TCGTTTACGA	AGATACCATC	TCCAAGTGAT	GCCCAGTATT	TACCAAGTTC	AGGATCGTTT	13020
TTAGATTCTT	TCTTGCCGTC	AACATCTTCG	TAACGAGTGT	TTTCAACCAA	GAGAACTTGT	13080
CCATCTTCAA	GAGCGTTGAT	TGCCGCTTCT	AATTCAGCAC	CACGAGTGAC	ACCTGGGAAA	13140
ACAACATCTT	GACCAAGTTT	TGCTGCCAAG	TCAGCTGCTA	CAGGAGCAAG	TGATTTACCA	13200
GCTTTATCAG	CTTCTTCTTT	CACACGTCCA	aggtgagaga	AAAGAATTGC	ACGTCCACCT	13260
TGTTCGATGA	TGTACTTAAT	AGTTGGAAGA	GCTGCTGTGA	TACGGTTATC	GTTAGTGATT	13320
ACGCCATCTT	TCAATGGTAC	GTTGAAGTCA	ACACGAACGA	GGACTTTTTT	ACCTTTCAAG	13380

WO 98/18931

1017

TCAACGTCTT TAACAGTAAG TTTTGCCATG TTACAAAAAC TCCGG

13425

(2) INFORMATION FOR SEQ ID NO: 152:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 905 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 152:

GATTTATCCT	ACCGGnGAAT	TTCCGGAGGG	GTTCTAGCAG	CAATCTTAGG	AATCTATGAA	60
CGAATGATTG	GCTTTCTGGC	CCATCCCTTT	AAAGACTTTA	AAGAAAATGT	TTTGTACTTT	120
ATTCCAGTTG	CCATCGGTAT	GCTTCTGGGA	ATCGGCTTAT	TTTCCTACCC	GATTGAATAC	180
CTGCTTGAAA	ATTATCAGGT	TTTTGTATTA	TGGAGCTTTG	CGGGAGCTAT	TATCGGTACA	240
GTTCCTAGCC	TCCTCAAAGA	ATCAACTCGA	GAATCTGACC	GAGACAAGAT	TGATTTAGCT	300
TGGTTATGGA	CAACCTTTAT	CATTTCTGGA	TTAGGACTCT	ATGCCTTAAA	TTTTGTCGTT	360
GGAACCTTAA	GCGCCAGCTT	TCTTAACTTC	GTCCTAGCAG	GCGCACTATT	GGCCCTTGGC	420
GTCTTGGTTC	CTGGCCTCAG	CCCATCAAAT	TTACTTTTGA	TTTTGGGACT	CTATGCTCCT	480
ATGTTGACTG	GTTTTAAAAC	TTTTGATTTC	TTGGGAACCT	TCTTTCCGAT	TGGAATTGGT	540
GCAGGTGCAA	CTCTCATCGT	TTTTTCAAAA	TTGATAGATT	ATGCCTTAAA	CAACTACCAC	600
TCACGCGTCT	ATCATTTCAT	CATCGGTATC	GTCCTATCAA	GTACCCTTTT	GATCTTAATT	660
CCAAATGCAG	GAAACGCTGA	AAGTATCCAA	TACACAGGAC	TTTCACTTGT	CGGTTATGTC	720
ATCATCGCCT	TCTTCTTTGC	GCTGGGAATC	TGGCTTGGTA	TTTGGATGAG	TCAATTGGAG	780
GATAAATATA	AATAATGGCA	aaaaaagtta	АААТСААААА	AACATTGGTG	GAACAAATCC	840
TATCTAAAGC	AGCTATCCCT	CATCAGGGGA	TTCAAATCAA	TGCCCTAGAA	GGAGAGCTTC	900
CTCAA						905

(2) INFORMATION FOR SEQ ID NO: 153:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4278 base pairs
 (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 153:

			1018			
6	TGTTGATCCC	CTGATAAGCT	AAGCATTTTA	TCATGCGACT	ATAAAAAACG	CTTGAATTAA
12	CAACAGCCAG	CAAGCGCCCA	ACCTTAGCGC	CGAAATTGCA	GTACGGCTAT	AAAGATGTGC
18	AGCTTATGGT	TGGCAAAGTT	AATGCTGAAC	ACGTGAGAAA	TTGTGGTGGT	CCTTGGAAAT
24	AGATACGGAC	CCTTGTTTAC	GTAACCATTG	ATCAGCGCCT	AACAGGTATC	TCCAATTTTG
30	TTCTGAAGAG	СТААТААСТТ	GTTGGTGGTG	GATTGCCCGT	GTGCTCGTAA	TTAGCCAAAC
36	TGAGCAACAA	CCCGTTACAG	GCTGAGTTTG	AAATCTGCCA	ATTTTATGAA	СААСТТСААТ
42	TCTTGCATTG	TGAACTTGGT	TTGGTTGCCA	CAATGCAGGT	ACCTAGCTCT	GTCAGCGACT
48	AGTTAATGAA	ACAAATCAAA	CTTGGTTTTG	TAACATTATT	GAATTGGTTC	ACAGACCAAG
54	TTATACAGAC	TCACAGTGGG	GAACTCTTGA	TTTCCGCCCA	TCGAAGACCG	GTTTTGGAAA
60	AAGATAGAAA	TCATCGAGAA	GTAGATGAAA	CCGCTTGCCA	AACCAAGCTA	GAAAAATTGG
660	AGAAGACCTC	AAAAACGCAA	GCAGAAGTAG	TGATTTTACA	TGACAGCAAT	GAAGAAAAA
72	CAAGGCTGAT	GTGATGACAG	AATTCAGAAC	TTTGGAAATC	TGTTTAGCCT	TTGGCTGACT
78	TGAAATCGCA	AGAAATTCCT	AAAGCCTTGG	TGGTCCAGTA	CATTTGGGCC	GCCCAGCATC
840	TGAGTTTGGT	CAGGACATTT	GATAACTATG	TAAGAATGTT	GCTACCCAAC	GACCGCGATG
900	TGGTAGCGGT	TGGTGCCTGC	CATATGGATG	AATCTTTGCC	AAGTTCTCGG	GATGGAGAAG
960	GCGCGGGCT	GCCTTTATGC	AAAGATGGTC	ACCAACTATC	ACCCTTACAC	TGGGACACAG
1020	CAAAGAATTG	TGAAAATCAT	TACTATGGTT	AACAGCTTGT	AGGGTCCTAC	TCGGACGATA
1080	ATCAGGCTGG	CAGACGAAGA	ATCGTTGGAA	AGTTCGCTTC	CTTCTAAGAA	GGTCTTCCAA
1140	CGGTTTCTCA	AACÇAGATTT	GGACTTGCCA	TGAGCACGTA	ACTACTACTT	GCAGACATGG
1200	ATACCTCCAC	ATATCACGGA	GAAAAAGGAA	CATCAATGGT	AATTTCCAAT	CCAGATGCTG
1260	TTTACGTGAA	TTACAGGTGG	CTTCACAGCT	TGTTGCCCGT	AAAATACAGG	TTTGCAGGAG
1320	CTTGCAAGCT	ACTTGGCTGA	GTTTCAGGTG	AACAGCAGTC	CAGAATCAGC	AATATGGTAC
1380	AGAAGCTGGC	AACTCCAAGA	CTTAGAGGAG	AGAACACAAA	CCTTTGTTGC	AAACTAGATG
1440	TTCAGGTGTC	CTATGCCTGC	GCCCACGGTG	TGGTAAATCA	TGACGATCAT	AAATACAAGG
1500	TCCAGCCAAA	GCTTTGCTGG	AGCCAGTTTG	CCTCTTCCTC	CTTACCTTGC	AATGGCGCAA
1560	AAATCTTAAG	ATGAGGGTGA	TTGAACGATC	TAAAATTCTC	ACATCGCAGG	GACTACCTTG
1620	CTTCCACTTC	ATGCCGGCGT	CTTTCTATGA	GATGGGTGCT	TGGATGAAAA	ATTGCTCATG
1680	AGGAACAAGT	GCTATCCAAA	CTCAACATCC	TACCATTGCC	GTGCTGATAA	GATGAAACAA
1740	CCTGTCTGAA	TTTCTGTTAG	TTGCCAGTTG	CCTTGAAAAC	TCAAGTCAAT	CCAGAACAAA
1800	CTTGTTGAAT	TTGTGCAAAC	GAAGATCCAC	TGTGCCAATG	CGCCTCACTA	CACGGTCACA

ATCTATGAAA	AACAAACTGG	CTTTAAAGGT	CATGAACAAG	TCATCGGTGG	TGGAACCTTT	1860
GGTCGCTTGC	TAGAACGCGG	AGTTGCCTAC	GGTGCTATGT	TCCCAGACTC	GATTGATACC	1920
ATGCACCAAG	CCAATGAATT	TATCGCCTTG	GATGATCTTT	TCCGAGCAGC	AGCAATTTAT	1980
GCCGAAGCTA	TTTACGAATT	GATCAAATAA	AACGATAGAA	GTCTGAGATC	TTATGCTTGG	2040
ACTTCTTTT	GGAGGGAAAG	TAGATGTCTC	AAATCGAAAG	AATCAAACAG	GCTATCATGG	2100
CGGATTCGCA	GAATGCCAGC	TATACAGAGC	GTGGCATTGA	GCCTCTCTTT	GCAGCGCCAA	2160
AAACTGCTCG	CATCAATATC	ATCGGTCAGG	CTCCGGGACT	ТААААСТСАА	GAAGCAGGCC	2220
TTTACTGGAA	AGATAAAAGT	GGTGACCGCT	TGCGGGACTG	GCTAGGTGTG	GATGAAGATA	2280
CCTTTTACAA	TTCAGGTTAT	TTTGCTGTTT	TGCCTATGGA	TTTCTACTTT	CCAGGACATG	2340
GCAAGTCGGG	TGATCTTCCG	CCTCGTACAG	GTTTTGCAGA	AAAATGGCAT	CCGCAGGTCT	2400
TACAGGAATT	GCCTGATATT	CAGTTAACCC	TCTTGATTGG	GCAATATGCC	CAAGCCTACT	2460
ATTTACAGGA	GAAAATCAGT	GGGAAGGTAA	CGGAGAGGGT	GAAACACTAT	AAAGACTATC	2520
TGCCAGCCTA	TTTTCCGCTA	GTTCACCCAT	CACCACGAAA	TCAAATCTGG	ATGGCCAAAA	2580
ATCCTTGGTT	TGAGGCAGAA	GTAGTGCCAG	ATTTGAAAAA	AAGAATTAAA	ACCATTTTAT	2640
AGTCAATGAA	AATCAAAGAG	CAAACTAGGA	AGCTAGTCGT	AGGCTGCTCA	AAGTACAGCT	2700
TTGAAGTTGC	AGATAAAACT	GACGAAGTCG	GTAACATACG	CACGGTAAGG	CGACGCTGAC	2760
GTGGTTTGAA	GAGATTTTCG	AAGAGTATTA	GAAGAAAAAG	AATGAAAGAA	ATAGCCTTTG	2820
ACGCATTTTA	CCAGCTTTAC	CAAAACGACC	AGCTTTCTTT	AGTGGATGTG	AGAGAAGTGG	2880
ATGAGTTTGC	AGCTCTTCAT	TTAGAAGGTG	CCCACAACCT	ACCGCTTAGT	CAATTGGCTG	2940
ATAGTTATGA	TTAATTGGAC	AAAGATCGCT	TGCATTATAT	TATTTGCAAA	TCTGGAATGA	3000
GATCGGCGCG	TGCTTGCCAA	TTCCTATTAG	AACAAGGTTA	TAATGTTATC	AATGTCCAGG	3060
GTGGCATGTT	AGCCTTTGAA	GAACTTTAAA	ATTTTGCATT	TCTCCTACTT	GGTGTGGACT	3120
GGGTAGGAGA	GTTTTATTTT	TAGATAATTC	TTATTTTTAA	Gaaaattgaa	AACATTTAAT	3180
ATTTGCCTCG	TGATGCTTTT	TTCAGACTCC	TAATCGTGGT	ATACTAGGTC	AGTATTTTAT	3240
AAATATGAAG	GAGATTTTTA	TGGCTAAAAA	AGGTACCCTA	ACAGGTTTGC	TCCTGTTTGG	3300
AATATTTTTT	GGTGCGGGGA	ACTTGATTTT	TCCGCCTTCT	CTAGGTGCTC	TATCTGGAGA	3360
ACATTTTCTT	CCTGCCATCG	CAGGTTTTGT	CTTTTCAGGC	GTTGGTATCG	CCGTCTTGAC	3420
CCTTATTATT	GGAACGCTAA	ATCCTAAAGG	ATATATCTAC	GAGATTTCAA	CGAAGATAGC	3480
GCCTTGGTTT	GCGACTCTTT	ACCTCTCAGT	TCTTTACTTG	TCAATCGGTC	CATTCTTTGC	3540

			1020			
TACCCCACGT	ACTGCTACAA	CAGCTTACGA	AGTAGGGATT	AGCCCCCTTT	TGTCGGATGC	3600
AAATAAAGGA	CTTGGCTTGA	TTGTATTTAC	GGTTCTGTAT	TTTGCGGCAG	CCTATTTGAT	3660
TTCGCTTAAT	CCATCAAAAA	TCTTAGACCG	CATTGGACGT	ATTTTAACGC	CAGTCTTTGC	3720
AATTTTGATT	GTTATCTTGG	TCGTTCTGGG	AGCTATCAAA	TATGGTGGAA	CAAGTCCTCA	3780
AGCTGCTTCA	CTGCTTATCA	AGCTTCTGCC	TTTGGTACAG	GTTTCCTAGA	AGGTTACAAT	3840
ACCTTGGACG	CCCTTGCCTC	AGTGGCCTTT	AGCGTAATCG	CAGTTCAAAC	CTTGAAACAA	3900
CTTGGATTTT	CAAGTAAGAA	AGAATACATT	TCAACTATTT	GGGTTGTTGG	TATCGTTGTT	3960
GCCCTTGCCT	TCAGCGCTCT	TTACATCGGT	TTAGGTTTTC	TTGGAAATCA	TTTCCCAGTA	4020
CCAGCTGAAG	CGATGAAGGG	TGGAACACCA	GGTGTTTAÇA	TCTTGTCACA	AGCCACTCAA	4080
GAAATCTTTG	GCTCAACAGC	TCAACTCTTC	CTTGCAGCTA	TGGTTACCGT	AACCTGCTTC	4140
ACAACGACTG	TTGGTTTGAT	TGTGTCAACA	GCTGAGTTCT	TTAATGAGCG	CTTCCCACAA	4200
ATCAGCTACA	AGGTTTATGC	GACAGCCTTT	ACCTTGATTG	GATTTGCTAT	TGCCAATTTG	4260
GGTCTTGATG	CGATTATC		•			4278
(2) INFORMA	TION FOR SE	0 ID NO: 15	· 4 ·			

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1953 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 154:

ACCCG	ATCAA	ATGACAAAAG	CTAACTTTGG	TGTCGTAGGT	ATGGCCGTAA	TGGGTCGTAA	60
CCTTG	CCCTT	AATATTGAAT	CTCGTGGTTA	CACAGTTGCT	ATCTACAACC	GTAGTAAAGA	120
AAAAA	CGGAA	GATGTGATTG	CTTGCCATCC	TGAAAAGAAC	TTTGTACCAA	GCTATGAÇGT	180
TGAAA	STTTT	GTAAACTCAA	TCGAAAAACC	TCGTCGTATC	ATGCTGATGG	TTCAAGCTGG	240
ACCTG	GTACA	GATGCTACTA	TCCAAGCCCT	TCTTCCACAC	CTTGACAAGG	GTGATATCTT	300
GATTG	ACGGA	GGAAATACTT	TCTACAAAGA	TACCATCCGT	CGTAATGAAG	AATTGGCAAA	360
CTCTG	STATC	AACTTTATCG	GTACTGGGGT	TTCTGGTGGT	GAAAAAGGTG	CCCTTGAAGG	420
TCCTT	CTATC	ATGCCTGGTG	GACAAAAAGA	AGCCTACGAA	TTGGTTGCGG	ATGTTCTTGA	480
AGAAA1	PCTCA	GCTAAAGCAC	CAGAAGATGG	CAAACCATGT	GTGACTTACA	TCGGTCCTGA	540
TGGAG	CTGGT	CACTATGTGA	AAATGGTTCA	CAATGGTATT	GAGTACGGTG	ATATGCAATT	600
GATCG	CAGAA	AGCTATGACT	TGATGCAACA	CTTGCTAGGC	CTTTCTGCAG	AAGATATGGC	660

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TGAAATCTTT	ACTGAGTGGA	ACAAGGGTGA	ATTAGACAGC	TACTTGATTG	AAATCACAGC	720
TGATATCTTG	AGCCGTAAAG	ACGATGAAGG	CCAAGATGGA	CCAATCGTAG	ACTACATCCT	780
TGATGCTGCA	GGTAACAAGG	GAACTGGTAA	ATGGACTAGC	CAATCATCTC	TTGACCTTGG	840
TGTACCATTG	TCACTGATTA	CTGAGTCAGT	GTTTGCACGC	TACATTTCAA	CTTACAAAGA	900
AGAACGTGTA	CATGCTAGCA	AGGTGCTTCC	AAAACCAGCT	GCCTTCAACT	TTGAAGGAGA	960
CAAGGCTGAA	TTGATTGAAA	AGATCCGTCA	AGCCCTTTAC	TTCTCAAAAA	TCATTTCATA	1020
CGCACAAGGA	TTTGCTCAAT	TGCGTGTAGC	CTCTAAAGAA	AACAACTGGA	ACTTGCCATT	1080
IGCAGATATC	GCATCTATCT	GGCGTGATGG	CTGTATCATC	CGTTCTCGTT	TCTTGCAAAA	1140
GATTACAGAT	GCTTACAACC	GCGATGCAGA	TCTTGCCAAC	CTTCTTTTGG	ACGAGTACTT	1200
CTTGGATGTT	ACTGCTAAGT	ACCAACAAGC	AGTACGTGAT	ATCGTAGCTC	TTGCGGTTCA	1260
AGCAGGTGTG	CCAGTGCCAA	CTTTCTCAGC	AGCTATTACT	TACTTTGATA	GCTACCGTTC	1320
AGCTGACCTT	CCAGCTAACT	TGATCCAAGC	ACAACGTGAC	TACTTTGGTG	СТСАСАСТТА	1380
CCAACGTAAA	GACAAAGAAG	GAACCTTCCA	CTACTCTTGG	TATGACGAAA	AATAAGTAGG	1440
PCAGCCATGG	GGAAACGGAT	TTTATTACTT	GAGAAAGAAC	GAAATCTAGC	TCATTTTTA	1500
AGTTTGGAAC	TCCAGAAAGA	GCAGTATCGG	GTTGATCTGG	TAGAGGAGGG	GCAAAAAGCC	1560
CTCTCCATGG	CTCTTCAGAC	AGACTATGAT	TTGATGTTAT	TGAACGTTAA	TCTGGGAGAT	1620
ATGATGGCTC	AGGATTTTGC	agaaaaattg	AGCCGAACTA	AACCTGCCTC	AGTCATCATG	1680
ATTTTAGATC	ATTGGGAAGA	CTTGCAAGAA	GAGCTGGAAG	TTGTTCAGCG	TTTTGCAGTT	1740
FCATACATCT	ATAAGCCAGT	CCTTATCGAA	AATCTGGTAG	CGCGTATTTC	GGCGATCTTC	1800
CGAGGTCGGG	ACTTCATTGA	TCAACACTGC	AGTCTGATGA	AAGTTCCAAG	GACCTACCGC	1860
AATCTTAGGA	TAGATGTTGA	ACATCACACG	GTTTATCGTG	GTGAAGAGAT	GATTGCTCTG	1920
ACACGCCGTG	AGTATGACCT	TTTGGCGACA	CGG			1953

(2) INFORMATION FOR SEQ ID NO: 155:

- (i) SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 6474 base pairs

 (B) TYPE: nucleic acid

 (C) STRANDEDNESS: double

 (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 155:

CCGGCAGTAC ACGAGCTTGG GGAACAGCCA CTGGAACGAT GAGGTGTGAG CTCAAAATAT

			1022			
CCTCCAGTTA	TGTTTTTCCT	AATAGTATAC	CGGAAGAGTG	AAAGGATTTT	ATAATGGAGC	120
GGTTACAAAG	AACCTACTTT	CTATTAAACA	GTATACTATG	AAAATGTGAA	AATTTAACAT	180
TTTTTTGTAC	AAATTTTATA	AATTATTGCC	TTTTTAATAT	CAATAGTTAA	TCTCTTATCC	240
AGATCCCCCT	TGTGTAAACT	TTATCTTTAT	AAGCTTCAAG	GCCCCTATCC	CATCTATTTG	300
CAACAATTAG	ATCACTTTGT	TTTGTAAATA	GTTCAAAATT	CTTTTCAATA	ATTACGTTAT	360
СТАТАСТААС	GTTTAAATTT	GGTTCATATA	CTAAAATTTT	TATACCGACA	ATCAATAGTT	420
CATTAATTAT	ACTTAAAATA	GCTGACTCTT	TGTAATTATC	TGAATTATAT	TTCATCCCCA	480
TATATATTA	TCCTACTATC	TTTGGCTTTC	GTTCCAATAT	TTGTTTAACT	ATGAACTGTT	540
TTCTATTTGT	GTTTGAAATA	TCAATCGCTT	CTATCACTGG	GGCATTTATT	TCTATAAATT	600
СТТТТТТТАА	TTGTTTAGTA	TCTTTGGGAA	GACAATATCC	TCCAAATCCA	AAAGAAGGAT	660
AAAATATTAT	ATTTCCAATT	CTTGGATCTA	AACAAACACC	TTTTATTACA	ACTTCAGCAT	720
TTAAGCTTCT	CCTCTCAGCA	AAAGAATCTA	GTTCATTAAA	AAAGCAACAC	GGAGAGCTAA	780
GAATGTGTTA	GAAAAAAGCT	TAATTGCTTC	TGCTTCAGTA	GGAGAAACTA	ACATAACATT	840
TTTAATATTG	GCAGTACTAT	GAGTACTAAT	CGAAAGGAAC	AACTCTGCAA	TTTTTCTTCC	900
TTCAACTGTC	TCATCTCCAA	CAACTATGCG	ACTTGGATAT	AAATTATCAT	ATATAGAACA	960
ACCTTCTCTC	AAAAATTCAG	GGACAAAAAT	GATATTTTT	GTATCAAACA	GCCTTTTTAA	1020
TTTGTTTGAA	AAGCCGATCG	GAACTGTTGA	CTTTAAAATA	ATCTTTCCAT	TAGGTTTTAC	1080
CCTCAGAATC	TTCGATACCG	TTTGTTCGAT	TTCATATGTA	TTAAAACTAC	CAATTTTCTC	1140
ATCATAATCT	GTCGGAAGCG	CAATAATATA	ATAATCAATA	AATTTTTAA	TTTCAGAAAA	1200
TGTATCAAAA	AAAGTAATAT	TTAAGTTATT	CTCGCAAAAA	AACTTCATAA	GCTCTTCATT	1260
TTTAGATGGA	AGAATGCCCT	TTTTTAAATT	ATTTATTTT	ACAGAATCTA	TATCATATGC	1320
AACAACTTTA	TATTTAGATG	CAAATAGTAA	CGCGTAGGCC	AGCCCAACAT	GCCCCAAACC	1380
AATTACTGCT	ATATTCATAA	AACTACTTCC	TTATTTCTTA	ATCCAAAATC	TAATAGAATA	1440
AGCTGCCCCA	TTCCTTAAAT	ACAACTCTTT	AATATTGTTT	AAAAGTTTTT	CAACTGATTT	1500
CCAGATTATC	AAAATCTGAG	ATTTATAGCA	CAATATTGAT	GATATTCTAT	СААТАТААТТ	1560
TTTTTCATCA	AGTTCCTCTT	GATACATTTT	TAATTCTTTA	GTTTTTCCCA	TATAACTAAC	1620
САТАСТАСТА	TCACTTACAT	ATGGGAAGTC	CTCATAATAT	ATTACTTTAT	AACGCATAAA	1680
TTCAAGCGCC	CTTCCAATAC	TATTCACAAA	AACATGAGCA	ACATGGTCAC	CAAGTGAAAG	1740
CGGACAATAT	ACGACACATT	TGTCGTCTAA	ATGCATTAAC	AGCTCTTTTA	TGATATCATT	1800
CTTTAATGTG	TCCTCATTTT	ттааттсаст	ATAGATATGA	СССТАТАСАА	ልልምጥርርርርልምጥ	1860

TCTATCTTTC	CTATAGAGAC	ATTCATAGTA	CGATAAGTGT	CTAAAATCAC	ATTGTAGACG	1920
TTCACAAGCT	AACCTGTCTT	CTTTCTTCCT	TTCTTCAATC	GGATATTTCC	CAAGGTTACA	1980
CAACTTATGA	AATTGCTTAG	CAGAGGGCTG	TAGCTGTTGG	CTCAAAGGGT	AACCAGAAAA	2040
TATAGTAATA	ACAAGTACAA	TTTCTCCTTC	TGAAGTTAAT	TTTGAAATAT	AATCACCACA	2100
GGAAAAAATT	GCGTCATCTA	AATGTGGAGA	TAAAAAGATA	TACTTAGTAT	TGTTACTCAT	2160
AACCATTCCC	TCTACAATTT	ATCTAAAAAC	TCACTAAGTG	TCTGATTAAA	TTCCACATCA	2220
TCAAAAAAAT	TCACCTTATT	CTTAATAATG	AATATTTCGT	ТАААТАААСА	ТАТАТАТАА	2280
TATTTCAATA	TCCTTTCAAT	ATCATCCTCT	AAATTCTCCT	CAATATTTTG	TATCAGCCCA	2340
TTTACAATCT	TATTAAAAAA	GATAAGCTCT	TTATCTCTAA	AATTAAATAT	TTTCATACAA	2400
CTGTTGTATC	GAAAAATATA	таааатаатт	TTTACTAATG	TTTGAATATT	ТАААСААСТА	2460
AATAAATGAG	TTGTACCCGG	GACACTATTT	ATGTTATCAA	GAACACTATC	TTGAAACCTC	2520
AACTCACAGT	TCTTTTTGTG	AAATTCTTTT	TTATCGTTTA	GATCTGATAT	TTTTTTAGAC	2580
ATTTCAACAA	TCTCAGACAT	TTTATATGGA	TATCTAGGAT	GAATGCCAAA	ACTATGCAAA	2640
ATGAACTGCA	CCCCAAAAGT	TAGACAGAAT	AAATCTAACT	TTTGGGGTGC	AGTTCATAAG	2700
ATTGGGATAT	TTTTTTTAG	CTAGAACTAG	TAGAAATATA	TAGTCAAATA	ACAGATACCT	2760
TAAGGGTTTC	TCATCTACAT	AAAAAAATGA	TACTTTTTTC	TCTTCAGTAA	TTACCTCATA	2820
AGCTTCACAA	TAGAATCTCA	TGTTTCCCTC	CCCTATATTC	TTAAATAAAA	TCCTTTGGAA	2880
ATTGATATAT	CTTAGTAAAA	TATTGTTTAA	GTTCCGGATG	CGGAGCATGG	GTAACAATAA	2940
TGACAGTCAA	ATCCTCTCTA	TCTAATATCT	TACGTTCAAT	CGCTAACGAA	GTTCTCCTAT	3000
CGATAGCAGA	AGTTCCCTCG	TCAATTAATA	CTATTTTCTT	ATTTCTAATT	AGCCCTCTAG	3060
CTAAAGTAAT	TTTTTGTTTC	TGCCCTCCTG	ACAGTAATCT	CCCATCATCA	CCAACATAAT	3120
AATCTAAAAT	GTTATTAGGA	AAATCTTTTA	CACTCAAACC	AACTTGCTCT	AAAGACTGTA	3180
GTATTTCTTC	ATCAGTATAA	TTTTCTTCCA	ATAAAATATT	ATCTCTAATC	GTACCTTCAA	3240
ACAAATAAGC	TTTTTGATCT	ACATATAGAA	CATTCGAAAC	CATATTTAAA	TAGGAGGTTT	3300
TTTTTATATC	ATCCCCGCAG	AATCGCAATT	CTCCACTATA	ATCTCTCAAA	AAGCCATTCA	3360
ATAATTTTAA	TAATGTAGAT	TTCCCGCTTC	CACTTTCACC	TAAAATTAAA	TACTTTTCAT	3420
TACGTTGAAA	ACAAAAATTT	AAGTTTTTTA	ATATTTCTTT	ATCTCCATAC	TTATAGCAAA	3480
TATTTTTTGC	TTCATATAAC	GGAAAATCTC	TATTCACCTC	ATTTGGTTCG	ATATCATTCA	3540
TTTTATTTGA	CTCAATTGGA	TTAATTGAAT	ACAATTTTAA	AAAAATAGGC	TTCGTACCAA	3600

			1024			
TAATAGAGGA	TAATTGACCT	CCTAATTCAC	CTAGCGCTGT	AAAAATAACA	CCTGTTAGTG	366
CTCCTATTGC	TTCAATAGTA	CCAATTTTCA	. CTATTCCTTT	TATTGCAAGA	TAGCCTGTTA	372
AAAAAACGAG	AGATATCTGA	ааааааатат	TGAGAAAGAA	GCTAATAGCG	CCTGCTAACG	3780
TTTCTACAGT	TGTCTTTCTT	TGTATAACCA	ТСТТТААТАА	AATTCCTGCT	TCTTTAATTT	384
TCTTAGGCAA	TACATATAAA	AGATTCAAGG	ACGCTAACAC	ATCAAATCCA	TTCAATATAG	390
TCTCACTAGA	ТТТТАААААА	GCTTCATTTT	GGTTAGTTAA	ATTTAGACTA	ACTTCTCGCA	3960
TTTTCGATGC	AAAGATTTTT	GGTACAAGTA	GCATAATCAT	TAATGAAAAC	AAGGTGGCTA	4020
CAGTCAATGA	CCAATGATAG	TGATTAAGAG	TCACAACTGC	AAATATAGTA	CCAGAAATTC	4080
CTTTTATTAC	TAAAAAAAGT	TGTTTAAACG	CCTGATCATT	TAAAGTCTGA	ACATCATTAT	4140
TTAGCCACGA	AAGATATGTT	CCTGATGATT	TACTATGAAA	TTCTTGATAG	GTAGAGTTAG	4200
AGATGTCTGT	GGCAACTCTA	TTTCGAATCT	CTAGATTAAA	CTCTTGGATC	ACTTCAACCT	4260
GATAATTTTT	CACTACCCAG	TCAAGGAATA	TTATCCCACA	CCAGACAATC	ATTTGGTAGA	4320
TTGACAATTT	CAAAAACCGC	TCTAAATTCA	TCGCAATTAA	TTCATTCAAC	ACCAGAGCAT	4380
TAATAGTTGC	TGCATAAATT	AGCAATAATT	GACCAGCAAC	AATAAATATC	GTTAATAAAC	4440
TAAATTTTTT	TATATTTGAT	TTTATAATAG	TATACACAAT	AGTTTCTCAC	TTTCTAAATT	4500
TTAATTGAAC	ATAGTTTTCA	TATATACAAT	AGAAAAAACC	AAAATGATAT	AATAACATAT	4560
ATTTCAAAAA	AGAAATTCGT	TAAAAATTTT	TTCTTCTCTT	GCCTTCTTGA	TTACTTTTAA	4620
AGCCTTGCAT	TTGTCTCCTA	TTAATAGTAA	CCGCTTTATG	TTTAAAGAAT	AATATTTCTT	4680
TGTAACCAAT	ATTCTCTCGT	TGAAACTCAA	TAAATTAAAA	TATTTCCTAC	AGTAATTATA	4740
ATATTCTTCA	TCTGCATTAA	TTGTTTTTTG	TGTCACTCCA	GTGATACCGT	TTTCTTTACT	4800
GTGAGCGTAG	TAATTCACCA	AGAATTCTCG	CACTATATCA	ATTTGGTATC	CTTGAACAAG	4860
TAGTTTTAAT	AAAACAACAC	CGTCCTGATG	TGAATCTATT	TTCTCAAAAC	CATTAATTAA	4920
TTCTAGCACC	TCTTTTTTAC	ACAACCAAAA	TGACGTACCT	GCTATATTGT	GAACCATTTG	4980
AACAAACAAG	GGATTTCCAA	CAAAATCGGT	CTTCTCCTCT	TCTCGTGTAC	CATTTGGATA	5040
AATTATTATT	CCATAACTAC	AAACTAAAGC	TAAATTCTTC	ATTCTACTCT	TTTTAAAACA	5100
AGCCATCAAC	TTTAAAATTC	GATCTGGCAT	ATATTCATCA	TCATCGTCTA	AAAATGATAT	5160
ATACTTACCT	CTAGAATTTT	TGATACCTAT	GTTTCTGGCA	TTAGTTGCAC	CTAAATCTTC	5220
ATTACTTAAA	ATTAACTTAA	TTCTATGATT	GGTATAGCCA	aattgatgga	TAATTTTATT	5280
TCTTAAATTT	ACATTACTAT	AATTATCATC	AATAATTATA	ACTTCGATAT	TTTTATAACT	5340
TTGATGTAAA	CAACTTTTCA	CAGCTCTAAT	CAGAGATTCA	ТАССТАТТАТ	СТСТТССТАТ	5400

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ТАТААТАСТТ	ACTAATTCTT	GATCTATATT	CCTATCCATG	ACTACTCTTC	TCTAATAATT	5460
CATCATATAC	TCTCATGGTT	TCTACAAACA	TTTTTTGCAC	agaaaaatgt	TTTCTTATTT	5520
TTGATTTACT	ATTCTCACCT	ATATATTTCA	AATACTCAGA	ATCATTGAGT	AAAAATTAG	5580
CACAAGCACA	CACTCCCTCA	ACATCTTCCT	TCTCAAATAA	AAATCCATCA	ACCCTATGTT	5640
CAATAATTTC	ACTTAACCCG	CCAACATTAC	TAGCTAAAAC	CGGAGTTCCT	TGTGACATTG	5700
ACTCTAAAAC	ACACATAGGT	ATTCCTTCTG	TATCAGAAGG	AATATACAAT	AAATCCGATA	5760
TTTGGTAAAC	TATAGTAGCT	GGATAGATTT	CACCAAGTAA	CCTGAAATTA	TCTCTACATT	5820
TCAAATGGCA	AATTTTTTCT	TTCAAAGCAG	CCCACATACT	ACCATTTCCA	GCCATAATAA	5880
AAATCACATC	TTCTCTGACT	AAAAATAATT	TTTCTGCAAA	TTCAAGGAAT	CTATCCGGCC	5940
TTTTTTCTGG	ATCCAACCTT	CCAACATAAC	AAATGATTTT	TTGTTATTTG	GAATACAAAA	6000
ТТСТТТТТТА	AAGTCTTGAA	CACCTACTAC	ATCTAAATCG	CTATTTGATA	CATTAATTCC	6060
GTTATTTATT	GCAACTATCT	TCTTATTTTT	TATTATACTC	TCCAATCTTT	TTTTTCATAG	6120
TTTCAGATAC	ACAAATAAAA	GCATCTCCCA	TAGAATATGT	CCAAAAATCA	AAATAAGTCA	6180
AGAATTTCTT	TTTTAAGTTA	TATTCAACCC	ATCCATGGCA	TGTTATCACT	GTCTTAACCT	6240
TTCCAAATCC	ATTCTTGTCA	AGTTTTTTTA	ACATATATAA	AAAATAATTA	GTTGAGTAGC	6300
CATGACAGTG	TATAAGTTGG	ATTTTTAATA	ТААААТТТТА	ATTTTTAACG	TGTAAGGCAG	6360
ТТТСААААТТ	ATTTGAACAT	TGAGTACAAT	CAACATAGGC	AATATCTAAA	ТТТТАТААТ	6420
CATCAATAAC	CTTTGAATCT	CTAGATACAA	TTATCAAAAT	AGGGAATAGA	GACA	6474
(2) THEODY	mton non or					

(2) INFORMATION FOR SEQ ID NO: 156:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 4792 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 156:

TATTTAACGA	TTTTTTTCAT	GTCATTTCCT	CCAAAATAGA	ATACCTTATA	ATCTTAACAG	60
AAAAAGAGCA	TTTACGCCAT	TATATGATAT	CTATCTCTGT	GATAAGTTTT	TTTTATGGGT	120
AATTTAAAAG	ACCAAACGCA	AGATGGCAAT	CAAGACCACT	CCAAAGAGAA	CTGTTCCGAC	180
TAGATTGCGG	TAGCGAAAGG	CTACCCAAGC	TGTTGGAAAG	ACGGCTAAGA	AGTCCAGTCA	240
TTTGATTTGA	GGAAGACTGC	CAACCTTACC	TGTCACTACG	CTTGAAAGAA	TCAGGGCAAA	300

•			1026			
GATAATGGAA	ACAGGCAAAA	ACTTCAAAAA	ACGCTCAACA	ATCGCAGGCA	GGCCCTTATA	360
CTTGACCAAG	ATGAAGGGAA	TCATACGGGG	AATCCAAGTC	ACCAAGCCAG	AGAAAATAAC	420
TGCTAATAAA	AGATACTTAC	TGACCATCTA	AAACCACCCC	CATGCTACAA	CCAAGTAGCG	480
TCGCAAACAG	AACAGCTAGT	GACTGAGACA	TCACTGTCAA	GAGCAAAAAG	AAGGACACCG	540
CAACAACTGC	TAGGATAATG	AGCAGATTGC	GGACAGGAAT	CCGTCTTTGC	ATAATCTGAA	600
ATTGCGAAGC	ААААТАССАА	TAAACATCCC	AACCAGGGCA	AAATCCAAGC	CAAAGATTTC	660.
TGGATTTGGT	AGCAGGCCAC	CCAGAGCCGT	TCCGACTACT	GTCCCCACAA	ACCAAGCCAC	720
ATAGCTGTTA	AGATTGTTTC	CGTGCATCCA	CATAGGATTT	ACCTTGTCTG	TATGGGCCAA	780
TTCACCCATC	AAAACGCCAT	AGGTCTCATC	TGTCAAGATA	CTAGACATAC	CGATATTGTA	840
CCAAAGACTG	GTATGACGGA	AATAAGTCGA	TGCGTGTAAA	СТСААСАААА	AGAGACGCAA	900
GTTGATTAGA	AAAACCGTCA	TAGCAATAGC	TGCCACAGGA	GCTTGAACCA	CAATCAGTGC	960
CAACATGGCA	AACTGGGCAC	TCCCAGCATA	AACAAAGAGA	CTCATCAAGC	CCATCTCAAC	1020
AGGTGTCACA	TAGGGCGCAC	CGATAATTCC	ACAGGCCAGG	CCGATACTGA	CATAGCCAAG	1080
AGCCGTTGGC	ATGGCTGCCT	GCGCCCCCTC	CTAAAATCCT	TTTTCTTTCA	TCTTTCTCCT	1140
CATATTGTCT	TAATAATACT	CAATGAAAAT	CAAAGAGCAA	ACTAGGAAAC	TAGCCGCAGG	1200
TTGCTCAAAA	CACTGTTTTG	AGGTTGCAGA	TAGAACTGAT	GAAGTCAGCT	CAAAACACTG	1260
TTTTGAGGTT	GTGGATAGAA	CTGACGAAGT	CAGCTCAAAA	CACCGTTTTG	AGGTTGTGGA	1320
TAGAACTGAC	GAAGTCAGTA	ACCATACCTA	CGGCAAAGTG	AAGCTGACGT	GGTTTGAAGA	1380
GAGTTTCGAA	GAGTACAAGT	AGGCTGAAAA	GAATCCAACC	ACAGCATGGA	СТАТТАТАТА	1440
GCAGATTGAA	ATAAGATGAG	AACAAATCGA	TTGGGAAAGT	AAAATTAATT	TCTATAAATG	1500
TTTTAGCAAT	TGTTTCGTAC	TATTTTAGAT	TCAGTCTATT	ATAACACATT	CAGAAAAGAG	1560
AAAAAAGTCT	GTTGATTTTG	ACCATCATAA	AAAGACTGGC	AATCCAGTCT	CAAACATATA	1620
TTATAGAAAT	TCTCCACTAA	ATACTTTCAC	GAATATTCAG	AAGCATAACA	AAGGCAAC'TA	1680
GAAGAAATAG	СААТААААСА	AAGCTAACTG	CCAGAGTTCC	AAAGCTAGTA	GCAATGGTTA	1740
CCAAAGCTAT	TGTAAATAAG	CTAGGTAAAA	CAACCGTAAT	GGCACCGATA	GAGGATTGAA	1800
CTGCTCCCAT	TGACTCCTCA	GGTATTTGTT	TAAAAACGAG	TTCTTGCAAT	CTAGGAGAGA	1860
GAACACCTGC	GAAAAAGGCA	TCCAAGGTAC	TAAAGATGAG	AATCCAGTCA	AAACGAACTG	1920
TGGCAAATCC	TACTAGAAGA	AGCAACTGGA	TGACAAGTGA	GGCATAGAGA	GCTGTTTTTA	1980
TGGAAATGGT	ATGTTGCAGA	TAGCCACTTA	CAAGGCTTCC	GACAATCAGG	GCTGATAATT	2040
CTAGTGTGGC	TAACAAGGCA	AGAGATTGAC	CAGTTTGTAA	ATTCAAAAAG	GGCTGGTTCC	2100

TTAAAAATAG	AGTGGAAATA	GGAACCGTAA	CATTTATCAC	TGCTTGACTA	GTAGAGATAA	216
T AAACAAA AC	CAAGAGCACC	TTATTCATAT	TCCATATCAA	TTTCGATGAT	TGGAGCAAAT	2220
GCTGGCAAAA	GGATTTTACA	GAGAGTCCTT	CTTGATAGCT	AATCGTTTTT	TCTACTTTCA	2280
AGAGGTCAGT	TTTTATGAAG	AGGATACCTA	AAAATGCGAT	TAAAAAGGTA	AGAGCGTTCA	2340
GTAAGGAAAT	AAACTGGATG	GATAGAATGC	CTAGTAAGAC	TCCTCCTAGG	ATATTACTGA	2400
TTGTTTTCAC	TAAACTAACA	GTTGACTGTT	TAAAGCCAAT	AGCTTCTGCC	AGATGGTCTT	2460
GCCCAATAAT	TCTAATGAAA	ATCGGAGTGA	GCATGGCGCC	TGAAAAATAA	CTCAATGTGT	2520
CAGACAAGAG	GTTAATCAGA	CAAATAAATG	CTACTAGCAA	CAAGGAGAAA	GACTGCCCTG	2580
AAAGTGATAA	AGACACTATA	GAGTAAAGCA	AAAATTTTGC	AAAACTAATG	ACTGTGTATT	2640
TCAAGACACG	ATGATGTTGA	AAATCCGCCA	AAACTCCCAG	AAAGATTTGT	AGAACTTGGG	2700
GCAGGGTTTC	TGAAATCGTG	ATGAGTAAAA	TCGCCAAAGG	GGCAAAAGAT	GCATCTGCCA	2760
CATAATTCAG	GAAGGCCAGA	TAAAAAATCG	TATCCCCAAG	CGTTGAAATC	CACTGGTTGA	2820
TAGTTAATTG	CCTAAAATCT	CTATTTTGAA	GAAATACTTT	CATCACAACT	CCTTCTTAAG	2880
TTCAAATGGG	AATCTTTCCC	CAAGGATAGA	CCGCGATACT	ACTAACAACC	AAAATTACAG	2940
TAACATCAAA	AGCTGACCAA	TGCCATTGTA	GACTATATGC	AGTCCAATAG	GCCAATAAAT	3000
TGACTTTGTC	ATTCTAAATA	AGACTGCAÀA	TATAAGACCT	CCACCCATAT	AGAAGACAAA	3060
GTCTGTCAAG	ACCCAACCGT	GATTACTAAT	GTGCGAGACC	ССАААТАААА	CAGCGGAACC	3120
AAGTACATCT	AGCCCCCATT	TCTTTCCTTT	TTCCAGAGCA	GTCATCACTA	ATCCACGATA	3180
AATCATGTCT	TCAAAAATGG	GACCTGCAAT	CACAGGATAÀ	AAAAAATACA	TCAAAAATGC	3240
TGTAGCCCCT	GTAAAAGTCG	GAGCAGCATG	TTGATAAGAA	ATTTCATTTC	GAGTAGGTGG	3300
GAAAAGAAAA	AAGGTAACGA	AATTCCAAAC	AACAAAAGCA	AGCAGAGCTA	GGAAGGAATA	3360
GAAAAGATAG	GATCCTTTAA	ACTTTCTACT	ATTGATTTTC	TGCCATTTCC	CCGACCAAAT	3420
CATAGCAATA	AGAGCAAATA	AAACCACAAG	AAAATTCAAC	ATCATATCCG	ACAGATAATA	3480
GGCAAAGTCA	GATAGCCCAG	TAACAAGGTC	GCTGCGTAAA	ACTAGAACAC	TGAACTTCTG	3540
GTCAGCAATA	ACTAGTAGAA	AAACTATAAT	AAAGTAGCGG	TGTGAGATTA	TCTTTTTCAT	3600
ATATCACCTT	TCTAATATCC	AAATACCAAT	AAAGTAACAA	TGAGTAAGAA	ACTATTCCAT	3660
GAAGCATGCA	GAGCTATAGC	CCAATAGATG	GATCGGGTGT	AGCGAAACAT	САТАСААААТ	3720
ATCAAGCCCA	TTCCAAAATA	CTTTATGAAA	TCTGTCGTTA	TCCAACCATA	CTGCAAAACA	3780
rgcatagege	CAAATATGGC	AGCGGAAACA	AGAACATCAA	GATAGTATCT	СТТААСТТТА	3840

	•		1028			
GATAAACTTG	TCATCAAAAG	ACCACGACAA	ACAACCTCTT	CTGATACAGG	TGCGATAATA	3900
CTAGTATAAA	GTATTCGCGT	AACAAAATAG	CTAATTCCTG	TTAAATTGGT	GGCTACTTCT	3960
ACGACTGTAC	TTCCATTCTG	GGTACGAGGA	AAGATATAGG	TTGTTAGATT	TGCCCACACG	4020
AACAATAAGA	AAAAAGAAAG	AAGGAAAACA	CCCAGGTAAG	ACCAACGAAA	CTGGAAACGA	4080
CCACACTCTT	TCCAATGTTC	ACTTTTGACA	AAAGCAATTG	TAGCTATAGT	TCCCAGAATA	4140
AGTACCAATA	AAACTTGGAA	CACATAGTAC	ATATTATCAG	ACAAAGCAAC	CATAAAATCT	4200
AAGTCTGATG	TGACATTAAA	AATGAGGTAA	TAAGTCAAAA	TCAACAAGCC	AGTTGCTAGG	4260
TGAAATTTCA	CTTCTTTCAT	TTTCTTCATC	CTATTATCTC	CTATAAGAGC	СТАТСТТСТА	4320
CGGCGGCCAA	ACAATCCATC	TGCTAAATCT	ATAGTCCAAT	CAAAAGCTCC	ACGATTAGGA	4380
CTCATCCCTT	GATTGCCCCA	ACCAGGGTAA	ATTCCTGGGA	CGCCCCAACC	AGATATACCA	4440
CTTCTTCCAC	CACCTCCCAT	AGAATTTACG	AGGTTGCCTC	CTCTAACATC	TTGCAACTCA	4500
GCTTCTGTCA	ATTCCATTGT	TTCTGCAAAT	TGTAAATTTA	ACATCTTTTA	CACTCCTTCA	4560
ATTATCTTCA	TTTGTAAACC	ACTTCTGCGA	CCTAGGATTT	GCTTCAAGTG	CTTTACAAGT	4620
ACAGTATAAC	ACGAACATTG	GCTTATTTTA	GAAAATCGCA	TATTTGATAT	TTTTTCTTAT	4680
AGAAATTTCA	GATTTGCGAT	TTTGGTGAAT	TTGATTACTT	CTCTGGTATA	ATAAAGTTAC	4740
TACTAATGAG	GAGTGGAGAA	ATATGAAGAA	ACAAATTTTA	ACATTATTGA	AA	4792
(2) INFORMA	ATION FOR SE	Q ID NO: 15	57:			

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 157:

CCGTTCTCGG	CGACGGCCAT	CTGATGAAGC	TATTTATGAG	GGAAACTGGC	AAGCTGGAGA	60
GTCAGAGTAT	CTAGTCTTTC	ACCGATTGCT	GTGGCAGCAG	ATGTGCAGGG	AAAAGGAGTT	120
GCTCAAACCT	TCTTAGAGGG	CTTGATTGAA	GGTTTTGATT	ATCTTGATTT	TCGCTCAGAT	180
ACGCATGCTG	AAAACAAGGT	TATGCAACAT	ATTTTTGAAA	AACTTGGTTT	TAAACAAGTC	240
GGTAAGATGC	CAGTAGATGG	CGAACGCTTG	GCCTATCAAG	AATTAAAGAA	ATAATGCAAA	300
AGAAGTATGT	AAAAATCCTC	TACTCCTCAC	CAATTGGTAT	TCTATCACTT	GTAGCTGATG	360
ACCATTATTT	GTATGGAATT	TGGGTTCAGG	AGCAGAAGCA	TTTTGAGAGG	GGACTAGGAG	420
ATGAAACGAT	AGAAGAAGTT	GTTAGTCATC	CTATTTTAGA	CCCAGTTATT	GCTTGCTTAG	480

ATGATTACTT	TAAAGGCAAG	CCTCAGGATT	TATCCAACTT	GCTCTTGGCG	CCAATCGGAA	540
CGAATTTTGA	AAAGAGAGTT	TGGGACTATT	TACAGGCAT	TCCTTATGGT	CAGACAGTGA	600
CCTATGGACA	AATTGCTCAA	GACCTGCAAG	TGGCTTCTGC	TCAAGCAATT	GGTGGAGCAG	660
TGGGACGCAA	TCCTTGGTCT	ATCCTAGTAC	CTTGTCATCG	TGTGTTGGGA	GCAGGCAAGC	720
GTCTGACAGG	TTATGCTGCA	GGAGTGGAAA	AGAAAGCTTG	GCTCTTGGAG	CATGAAGGAG	780
TAGATTTTAA	AGATAGAAGC	AATAGAAGGA	GAAGCACATG	TTAGAATTTA	TCGAATACCC	840
CAAATGTTCA	ACTTGTAAAA	AAGCAAAACA	AGAATTAAAT	CAATTAGGTG	TGGACTATAA	900
AGCCGTCCAT	ATCGTGGAAG	AAACACCTAG	CCAAGAAGTC	ATTTTGAATT	GGCTAGAAAC .	960
CTCAGGATTT	GAATTGAAGC	AATTTTTCAA	CACCAGTGGT	ATCAAATACC	GTGAATTAGG	1020
GCTAAAAGAT	AAGGTAGGAA	GTTTGTCAAA	CCAAGAAGCG	GCTGAGTTGC	TAGCAAGTGA	1080
CGGTATGTTG	TTAAAACGGC	CCATTTTAGT	AGAAAATGGA	ACTGTTAAGC	AAATCGGTTA	1140
TCGAAÁATCT	TATGAGGAAC	TGGGACTGAA	ATAGTTTTTA	TCTATCTCTT	TGATAGATAA	1200
AATATATAAC	TTCCCTGTTT	CAAAGTATGA	TAAACTAGTA	GGTAGACAAA	GTCTGTATCT	1260
GACCGTAGCA	AATAATTTCA	TTGACGGCAG	AAGCATGGTA	GCATGAATCA	TTATCAGAAG	1320
AGGATGTTTT	TATGAATGTT	ACAACGATTT	TAGCATCAGA	TTGGTACCAA	AACTTGATGC	1380
AATTGATTCC	GGATGGCAAG	CTGTTTAGCC	TACGTTCGGT	CTTTGATGGA	ATCCCTAGAA	1440
TTGTCCAACA	ACTTCCAACA	ACAATTATGT	TGACAATTGG	TGGTGCCCTT	TTTGGCTTGG	1500
TTTTGGCGCT	TCTTTTTGCC	attgtgaaga	TCAATCGTGT	CAAGATTTTA	TATCCCTTGC	1560
AGGCCTTCTT	TGTTAGTTTC	TTAAAAGGGA	CACcGATTTT	GGTGCAACTC	ATGTTGACCT	1620
ACTACGGAAT	CCCTTTGGCT	TTGAAAGCCC	TCAATCAGCA	ATGGGGAACT	GGTCTCAATA	1680
TCAATGCGAT	TCCAGCTGCA	GCTTTTGCGA	TTGTCGCCTT	TGCCTTTAAT	GAGGCAGCTT	1740
ATGCTAGTGA	AACCATTCGT	GCAGCCATTC	TCTCAGTTAA	TCCTGGTGAG	ATTGAGGCGG	1800
CACGCAGTCT	GGGTATGACC	CGAGCGCAAG	TTTATCGACG	AGTGATTATT	CCTAATGCAG	1860
CGGTGGTAGC	TACTCCAACC	TTGATTAATT	CCCTCATCGG	TTTGACCAAG	GGAACATCTC	1920
TAGCTTTTAG	TGCGGGTGTT	GTGGAAGTCT	TTGCCCAAGC	TCAGATTCTA	GGTGGAGCTG	1980
ATTATCGCTA	TTTTGAACGC	TTCATCTCCG	TTGCCCTTGT	TTATTGGGTA	GTCAATATCG	2040
GAATTGAAAG	CCTCGGTCGT	TTCATCGAGA	GAAAAATGGC	TATTTCTGCA	CCTGATACAG	2100
TGCAACAGAT	GTGAAAGGAG	ACCTTCGTTA	ATGATTAAGA	TTTCGAATTT	AAGCAA	2156

⁽²⁾ INFORMATION FOR SEQ ID NO: 158:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3140 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 158:

60	CTTATATGCT	AATTTAATTC	GTTGTCCTCC	AATCGATTTT	ACATGTCTTC	GTATCTCTAC
120	TATTTTATAA	GTCTTGGAAC	TCTCCTGAAC	AGTTGCAACG	TTGCATAACA	TTGTCTGCAT
180	ACTAGTGCCT	GTTGTAATAC	GTATTTACAA	ACTTTCAAAT	TCTTATTAAC	GGAATAGGGA
240	TTCTAAAGCT	CAGATACTTT	TCTGTTTTTT	GATATAAACA	CTAGGTTATA	TCTCCCGAGC
300	AGTACCATCA	CACGCACACC	TGGATATAAT	ATCTACTACA	CTATTGCTAA	TTTATATGTC
360	CGCTACTTGT	GCTTACCTAC	AGCTCTGATA	GAACACACTT	AATCATTTCC	AGCGTATCAT
420	CAAACCAGAC	CTTCCCCAAT	CCTGAGGGAT	GTTAGGAATT	GCATCAAGTT	GCAATATAAG
480	TGAATCTGCC	TACTCCATTC	AGCAACGCAA	GAAATAACGA	CAATTGGATT	TCATGAGCAC
540	AGGATTTGTC	TATACCCATA	ATCACTTTCG	TTGCTCAAGC	СТТТТААААТ	ACATGAACAT
600	TACAGTCGCA	TAATTCCATA	GACTGATTGT	AATTAGAGGT	GCATCGTCTC	GCACTTGTTT
660	AAGTGCCAAT	TCACTTCAAC	AATTCTGACA	TTTAACATTA	AGACAATCTT	CTTGAAGAAA
720	TCCGACAGCT	GCACGGATTC	ACAGGCTTTT	GTAGTACATC	TATTATTTT	GTACTCATAA
780	CTTTCTCAAT	GTTCAAATAC	ATCGATTCTT	TGCAGCATCA	CAAAATGAAT	TTATAACCTG
840	AATTGCTTCA	GTATTCCTGT	AACACGGGAC	TAATTCGTAA	CACAAACATC	GCTTGTTTAT
900	AACTTCCTTT	CGACAATGAT	GAAAGGTTGT	GCTAGAGTTC	GCACCAAGAT	ATACGGTCTA
960	GCCTGTTACC	AACCAGCTCC	CTACCAATAT	TACGGTATGG	GTAATTCTAC	ССТАААТТТА
1020	TCTCATAAAC	ACTTAACAAA	ATTCCAACCG	CTCCTAATTA	TCTGGGTTTC	AATATTGCCA
1080	TCTCGCAAAC	CTTCCAGAAC	ACTCCTGCAT	ATTCTTATAA	CAGACGGTGT	GCTTCATGCC
1140	GCGAGGATAT	СТТТАТТААТ	TTAACCTCTT	AACTACGCTA	CTTCGTGTTG	ACTTGTCCTG
1200	ATCCTCTCCT	CAATTGCATT	TGATAATCCG	CCATTCTAAA	ATTGGTCGGC	TTTTCTTTCA
1260	TATCGCAAGT	GAGGTGGTAA	GGTTTCAAAC	TTCTAACTCT	TTCCAACTTC	AAAAGATATT
1320	TTGATGAGGA	GTTGTACATC	TTTTTAATAT	GATATTTTCC	CGATTAACCC	CCCATCACTT
1380	AATATCTAAT	CTCTTAGAAC	GTATGATTAT	TTGTTCAGTA	CATCTGGGTA	TGGAAAACAC
1440	GACATCTTCA	TATGGTGTGG	GGAGTCACCG	ACGAGCAATA	CGTCCACTTT	TCGTATCTCC
1500	TAGAATTTTA	TCCACTTATT	GAATATTCTC	TTCTAAATCT	TGATGTCTAC	GTCATAGCAA

GTAGCTAAAT	CTAACAAGCG	ATTTTTATTT	TCACTTTGTA	ACCTAATTAC	TGACATTGGC	1560
CATTTTACAA	TACCAGCATT	AACATCCTCA	AAGTCTTTAA	AACAAAATTC	ACTCTCAAAT	1620
TTTGCTTTTT	CCATTGGGAA	AATATGTTTC	CCTCCCTGGT	AGTGGTTATG	ACTAAGAATG	1680
GAGCCTCCTG	AGATAGGAAG	ATCAGAATTT	GAACCAGCAA	AATATCCTGG	СААААТАТСА	1740
ACAATCTCCA	ATAATTGTTC	Aaatgttttä	GAGGTAATAG	CCATTGGTAC	ATGTTGACTA	1800
TTCAAAAATA	TCGCATGCTC	ATTAAAGTAT	GAGTAGGGAG	AATACTGGAA	TCCCCATACT	1860
TCGTCACCAA	GTTTCAACCG	AATAATTCTA	TGATTCGAAC	GTGCTGGATA	ATTTATTCGC	1920
CCCTGATATC	CTTCATTTTC	CATACATAGT	AAACATTTGG	GATAATTAGT	TGCTTTTACT	1980
AATTTTTCAG	CAGCAATTGT	TTTTGGATCT	TTTTCGGGTT	TTGACAAATT	TATCGTAATC	2040
TCTAGCTCTC	CGTATTTAGT	TGATGCTCGA	AACTCAATAT	TCTTAGCAAT	AGCAGAAGTT	2100
TTAATATAAT	CACTATCTTT	ACTTAACTTA	TAAAACTCTT	CAACTGCTTC	TTGAGGTGAT	2160
ATATCATATG	AACTCCAAAA	AATATCATTT	AATCGACTAG	GTAAAGGAAC	TATGAAATTC	2220
ATTAACTCTG	CTCCTAAACA	TTCCTTTTCC	TCGATTAAAT	CTTTAATTTT	ACCGTTTTTT	2280
AAGGCGATTT	CCACTAAGTA	ATCTTTTATT	TGTTTCAGGT	CATTTTCATC	GGAAATGCGA	2340
TCAATTCCCT	CCTCACCTAT	TAACGCTAGT	ACTCTATTTT	TCACATATAT	TTTGTCAATT	2400
TCATTATACA	TTCCGTATTC	AATTACTCTA	TCAACAAAAT	TATCAATAAT	TGTTTTCATA	2460
TATTTTTCTT	TCTAATTTAT	GTTCCCATAT	TTTCTATACA	TTATCCATTT	ATAAATTGCT	2520
TGCGTAGTAT	GAGCAATTTT	ATCAAGGTGA	TGAATAATAT	CTAAAGCACT	AATTACTTCA	2580
GAAACGTTCC	CATCATCTTC	AAATATGTAA	TTCATTATTT	TCTTTTCCAT	ATTTATACTA	2640
AGCTCTTCTA	TCTCATTCTG	TTTTTGTATA	ACAACCATAT	CTAAACATCC	AGATTGTTCC	2700
TCTCTATAAC	AAGATATAGC	CCTATTCATA	TGCAGTCCGA	TAACTTCATG	AAGTATTTTT	2760
ATTTTTGAAA	TAATTTTCTT	CAAAATTTCA	TTATTTTGAA	GAATCTGTAG	ATTTTTTAAA	2820
ATTTCAACAA	TTCTATCCCC	AATACGTTCA	ATGTCAGTTG	ATATTTTTAT	ТАСАСТААТА	2880
ATTCTTCTTA	AGTCATATGA	AACAGGATGT	TGTAAACAAA	TTAACTCATA	TCCTTTTTTA	2940
TCAATATTTA	GAACTGACTC	ATTTATGATT	AAATCTTCTT	TAATCAATTC	TACTCGTTCT	3000
TCATTTGATA	AATATTCAAA	TAACTTCTCA	TATTTATCAA	GCACAGATAC	CCAAATGGTC	3060
TCTAAATTAT	TTGATAATTC	TATAATTTCA	TTTTCTAAAT	ATAACCTTAA	CATTTAGGTA	3120
CCTCTTCTTA	ACAAAGTTCG					3140

⁽²⁾ INFORMATION FOR SEQ ID NO: 159:

1032

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 9048 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 159:

CCGGATGATT	TCCTGGTCAG	ATAGGGGGAA	AGTGACTTCC	TCAGCAATCG	CGCGTAGAGT	60
AGGATTCCCT	TCACGGATAA	TATCGTTCAT	ATCAATTAAG	TGAGCAGCTT	TTGTAATACG	120
TTCTATTGCA	GACATTTTCT	CTCCTTATAT	TATGTTTAGT	GCAGTTAGCT	ACTGCCAAAG	180
CCCAAGTGGT	ATACTTGGAA	TAAGCCACTG	TGGATTAGTT	CATTTTCTTT	CATTACCTCT	240
ACATGATATC	ACAAAATGAC	AAGAATTGAA	AGCATTATGG	CATTTAGGAT	TTATAGAAAA	300
TAGATAGGAA	GTTCAATTCA	ATTGTGAAAG	AAATACTTAT	CTGTGATATA	ATAAAAAGAA	360
AAGGCTTGCA	TAAGAAAGTA	GGGAGAACGA	AGATACAAAG	AAGACAAAAT	CGAAATCAGG	420
GTGGTTTAGC	TTTTCGTTTT	ATGAAGGĠCT	TGGTAAACTT	TTTAGGAGTT	ATCGCAAGTG	480
GAGCAATAAG	GGATTTGTGG	CGATACTCTT	GCTAGCAGTT	GGTTTATCAA	TGGGCTTGGT	540
CTTGTTGTTT	GAAAGCTTCC	AAGGAATCCC	TTGACTAGTC	AAAAACGAGA	TACTATTTCT	600
CAAGAGGGGA	CTAAGCAAAA	GTCTCAGGAG	TAGGAAGAGG	AAAAAACTGC	CAGAATTATG	660
GCCCACGGGG	ATTTGCTCTA	CCACGATGGA	CTTTTCTTTT	CAGCTAAAAA	AGAAGACGGT	720
ACCTATGACT	TTCATGAAAA	TTTTGAGTAT	GTGACTCCTT	GGCTCAAGCA	AGGGGACTAA	780
GCAGCAGATT	TAGCTATTGG	TGATTTTGAA	GGAACCATTA	ATAAGGATCA	TTATTTAGCG	840
GGTTATCTTC	TCTTTAATGC	TCCTGTTGAA	GTTATGGATG	CTATTAAGGA	GGCAGGTTAT	900
CATGTGCTGG	ATTTAGCTCA	TAATCATATT	TTGGATTCGC	AAATTGAGGG	AGTTATTTCA	960
ACGGCCGATA	TTATTGAGAA	AGCTGGAATC	ACTCCAATCG	GAGTTTATAC	GCACGAACCA	1020
CGTGATCAGG	CTCCGCTGGT	CATTAAGGAA	GTGAATGGTA	TCAAGGTTGC	ATTGTTAGCC	1080
TATTCCTATG	GTTTCAATGG	AATTGAGCAG	TATATTTCTC	AGGAAGACTA	TAATCGTTAT	1140
CTTTCAGATT	TAAACGAAGA	TAAGATGAAG	GTTGAAATTG	AACGGGCAGA	GAAGGAAGCA	1200
GATATCACCA	TTATCATGCT	TCAGATGGGT	GTTGAGTATC	GATTGGAACC	AACTGAAGAA	1260
CAAAAAGCTC	TTTATCACAA	GATGATCGAT	TTGGGAGCGG	ATATTATCTT	TGGAGGGCAT	1320
CCTCACGTTG	TTGAACCATC	TGAAACGGTT	GAAAAAGATG	GAGATAAGAA	ACTCATTATC	1380
TATTAAATGG	GGAACTTCAT	TTCCAATCAA	CGAATTGAAT	CTATGGGAGA	TGAAGAGAAT	1440
GCTAAGTGGA	CTGAACGTGG	TGTTCTCATG	GATGTCACCA	TCAAGAAGAA	GGATGGAAAA	1500

ACAACTATCG	GAACAGCTAA	AGCTCATCCT	ACTTGGGTCA	ATCGAACACC	AAAGGGAACC	1560
PTTTCACCAG	AAGGATATCC	CTTGTATCAT	TACCAAACTT	ATATTTTGGA	AGATTTTATA	1620
GAGGATGGCA	GTCATCGTGA	CCAGTTAGAT	GAAGCGACTA	AGGAACGAAT	TGATACAGCC	1680
ГАТАААСААА	TGAATGAACA	TGTGGGATTG	AAGTGGTATT	AGCTTGAATC	CAGAGGAAAG	1740
raaatga tga	TTAAGGTAAT	TGCGACAGAT	ATGGATGGGA	CCTTGCTGGA	TGCTAGAGGT	1800
CAGCTTGATC	TCCCACGATT	GGAAAAGATT	TTAGATCAGT	TGGATCAAAG	GGGCATTCGT	1860
TTTGTCATTG	CGACGGGCAA	TGAAATTCAC	CGCATGAGAC	AACTACTGAG	TCCCTTGGTG	1920
GATCGAGTGG	TTCTGGTTGT	TGCTAATGGC	GCTCGTATTT	TTGAAAACAA	TGAATTGATT	1980
CAGGCTCAGA	CATGGGATGA	CGCCATTGTC	AACAAGGCTT	TGACTCATTT	CAAGGGTCGA	2040
GCGTGTCAGG	ACCAGTTTGT	TGTAACGGGG	ATGAAGGGTG	ATTTTGTCAA	GGAAGGTACG	2100
ATTTTTACAG	ATCTTGAAAG	TTTTATGACT	CCAGAAATGA	TTGAAAAATT	CTACCAACGG	2160
YGCAATTTG	TGGATGAATT	AACATCTGAC	CTCTTTGGTG	GTGTGCTCAA	GATGAGCATG	2220
GTTGTTGGTG	AGGAACGTTT	GAGTTCGGTT	TTGGAAGAAA	TCAATGCTCT	CTTTGATGGC	2280
CGTGTCCGAG	CTGTATCCAG	TGGCTATGGT	TGCATTGATA	TCCTCCAAGC	TGGGATTCAT	2340
VAAGCATGGG	GCTTGGAGGA	ATTACTCAAG	CGCTGGGACT	TGAAATCCCA	AGAAATCATG	2400
CTTTTGGTG	ATAGTGAAAA	TGATGTTGAA	ATGCTTGAAA	TGGCTGGAAT	TGCCTATGCG	2460
ATGGAAAATG	CTGATGAGAA	AGCCAAAGCT	GTGGCGACTG	CTCTAGCACC	AGCCAACAGC	2520
CAAGGAGGAG	TTTATCAAGT	CTTGGAAAAC	TGGTTAGAAA	AAGGAGAATG	AAGTGGCAGT	2580
CAGTTATTA	GAAAATTGGC	TCCTAAAGGA	ACAAGAAAAA	ATTCAAACTA	AGTATCGTCA	2640
CTAAATCAC	ATTTCTGTTG	TAGAACCAAA	CATTCTTTTT	ATTGGGGATT	CCATTGTCGA	2700
TATTATCCT	CTACAGGAGC	TATTTGGGAC	TTCAAAGACG	ATTGTCAATC	GAGGAATTCG	2760
GGCTATCAG	ACAGGACTGT	TACTAGAGAA	CCTTGATGCT	CATCTATATG	GTGGAGCAGT	2820
GATAAAATT	TTTCTTCTGA	TTGGGACAAA	TGATATCGGA	AAGGATGTTC	CTGTGAATGA	2880
GCTCTCAAT	AATCTCGAAG	CTATCATTCA	ATCCGTTGCT	CGCGATTATC	CATTGACAGA	2940
ATTAAATTG	CTTTCCATTT	TGCCTGTCAA	TGAGAGAGAG	GAGTACCAGC	AGGCAGTCTA	3000
ATCCGCTCG	AATGAAAAAA	TTCAGAACTG	GAATCAAGCC	TATCAAGAGC	TTGCATCTGC	3060
TATATGCAG	GTGGAATTTG	TGCCAGTATŢ	TGATTGTTTG	ACAGACCAAG	CAGGCCAACT	3120
AAAAAAGAA	TATACAACTG	ATGGACTGCA	CCTCAGTATT	GCTGGTTATC	AGGCTTTGTC	3180
AAATCCTTG	AAAGACTATC	TTTACTAAAT	AGCTAAATAA	TGTTAAATTT	GAGCATAATA	3240

			1034			
TCTTGTAAAA	AATTCTAAAA	TCCTTTAAAA	TAAAAAGTGA	CGGAGGAATT	TATGAATGTA	330
AATCAGATTG	TACGGATTAT	TCCTACTTTA	AAAGCTAATA	ATAGAAAATT	AAATGAAACA	3360
TTTTATATTG	AAACCCTTGG	AATGAAGGCC	TTGTTAGAAG	AATCGGCCTT	TCTGTCACTA	3420
GGTGACCAAA	CGGGTCTTGA	AAAGCTGGTT	TTAGAAGAAG	CTCCCAGTAT	GCGTACTCGT	3480
AAGGTAGAGG	GAAGAAAAA	ACTAGCTAGA	TTGATTGTCA	AGGTGGAAAA	TCCCTTAGAA	3540
ATTGAAGGAA	TCTTATCTAA	AACAGATTCG	ATTCATCGAT	TATATAAAGG	TCAAAATGGC	3600
TACGCTTTTG	AAATTTTCTC	ACCAGAAGAT	GATTTGATTT	TGATTCATGC	GGAAGATGAC	3660
ATAGCAAGTC	TAGTAGAAGT	AGGAGAAAAG	CCTGAATTTC	AAACAGATTT	GGCATCAATT	3720
TCTTTAAGTA	AATTTGAGAT	TTCTATGGAA	TTACATCTCC	CAACTGATAT	CGAAAGTTTC	3780
TTGGAATCAT	CTGAAATTGG	GGCATCCCTT	GATTTTATTC	CAGCTCAGGG	GCAGGATTTG	3840
ACTGTGGACA	ATACGGTTAC	CTGGGACTTA	TCTATGCTCA	AGTTCTTGGT	CAATGAATTA	3900
GACATAGCAA	GTCTTCGCCA	GAAGTTTGAG	TCTACTGAAT	ATTTTATTCC	TAAGTCTGAA	3960
AAATTCTTCC	TTGGTAAAGA	TAGAAATAAT	GTTGAATTGT	GGTTTGAAGA	AGTATGAAGT	4020
GGACCAAGAT	TATTAAAAAA	ATAGAAGAAC	AAATCGAGGC	AGGGATTTAT	CCCGGAGCCT	4080
CTTTTGCGTA	TTTTAAGGAC	AATCAATGGA	CAGAGTTCTA	TTTAGGCCAG	AGTGACCCAG	4140
AGCATGGCTT	GCAGACTGAG	GCAGGACTAG	TTTATGACCT	AGCTAGTGTC	AGCAAGGTTG	4200
TTGGGGTTGG	CACAGTTTGT	ACCTTCTTGT	GGGAAATAGG	TCAATTAGAT	ATTGATAGAC	4260
TGGTAATAGA	TTTTTTACCT	GAGAGTGATT	ATCCAGACAT	CACTATTCGC	CAGCTCTTGA	4320
CTCATGCAAC	AGACCTTGAT	CCTTTTATTC	CTAATCGTGA	TCTTTTAACA	GCCCCTGAAT	4380
TAAAGGAAGC	GATGTTTCAT	CTCAACAGAC	GAAGTCAGCC	AGCCTTTCTT	TATTCGGATG	4440
TCCATTTTTT	GCTGTTGGGC	TTTATTTTGG	AAAGAATTTT	TAATCAAGAT	TTGGATGTGA	4500
TTTTAAAGGA	TCAAGTCTGG	AAACCTTGGG	GAATGACGGA	AACTAAGTTT	GGGCCAGTTG	4560
AGCTTGCTGT	TCCAACAGTT	AGAGGTGTAG	AGGCAGGCAT	AGTGCATGAT	CCCAAGGCTC	4620
GTCTCCTGGG	TAGACATGCT	GGGAGTGCTG	GTTTATTTTC	GACTATAAAG	GATTTACAAA	4680
TCTTTTTAGA	ACACTATTTA	GCAGATGATT	TTGCAAGAGA	CTTAAATCAA	AATTTTTCTC	4740
CTTTGGATGA	CAAGGAACGT	TCTTTAGCAT	GGAATTTGGA	AGGAGATTGG	CTAGACCATA	4800
CGGGCTATAC	AGGTACCTTT	ATCATGTGGA	ATCGTCAGAA	GCAAGAAGCC	ACTATTTTCC	4860
TATCGAATCG	TACCTATGAA	AAGGACGAGA	GAGCTCAATG	GATATTAGAC	CGCAATCAAG	4920
TGATGAACTT	GATTCGCAAA	GAAGAGTAAG	GAGAGACATG	TCAAATAGTT	TAAAAGGGAC	4980
TTTACTAACA	GTTGTGGCTG	GTATTGCTTG	GGGGTTGTCA	GGAACGAGTG	GCCAATACCT	5040

AATGGCACAC	GGAATTTCGG	CTCTGGTCTT	GACTAACTTG	CGTCTTTTAA	TCCCTGGTGG	5100
AATTCTCATG	CTCTTGGCTT	ATGCTACTGC	AAAGGATAAA	ATACTGGTCT	TTTTAAAGGA	5160
TAGAAAGAGT	TTGCTGTCTC	TTCTTATTTT	TGCTCTGATT	GGTCTTTTTC	TCAACCAATT	5220
CGCCTATCTG	TCTGCTATTC	AGGAGACCAA	TGCGGGAACA	GCGACGGTGC	TTCAGTATGT	5280
TTGTCCTGTC	GGAATTTTAA	TTTATAGCTG	TATCAAGGAT	AGGGTGGCAC	CGACACTGGG	5340
AGAGATAGTT	TCCATCATAT	TCGCCATCGG	AGGAACCTTC	CTGATCGCAA	CACATGGGCA	5400
GTTGGACCAG	TTATCCATGA	CACCTGCTGG	TCTGTTCTGG	GGTCTCTTTT	CTGCCTTGAC	5460
TTATGCTCTG	TATATCATTT	TACCCATAGC	CTTGATTAAA	AAGTGGGGGA	GCAGCTTGGT	5520
CATTGGTGTG	GGAATGGTCA	TAGCAGGTTT	GGTCGCCCTT	CCTTTTACAG	GGGTTCTACA	5580
GGCCGATATC	CCGACTAGTC	TTGATTTTCT	CCTTGCGTTT	GCAGGCATTA	TCCTTATCGG	5640
GACTGTCTTT	GCCTATACAG	CTTTCCTTAA	AGGAGCCAGT	CTGATAGGAC	CGGTCAAGTC	5700
AAGCTTGTTG	GCTTCAATTG	AGCCAATATC	GGCGATTTTC	TTTGCCTTCT	TAATAATGAA	5760
TGAACAATTT	TATCCCATTG	ATTTTCTTGG	TATGGCAATG	ATATTGTTTG	CTGTAACTTT	5820
GATTTCTTTG	AAAGATTTAT	TCTTAGAAAA	ATAAAAAAGA	CTCTTTGTCC	GTGACAGAGA	5880
GTTTTTGCGT	GGTAATCTAA	TTATTTTCAA	GATAAAATTC	AAAGCGTTCG	CCTACATATT	5940
GACTTTTTAC	GTATTCAAAA	GCAGTACCAT	CTTCTAGGTA	GGAAACCTGG	GTCAATCCAA	6000
GAATAGCATG	TCCTTTTTCA	ACTTCCAAAT	AGTGGGCAAT	CTTTTCTTTA	GCAAGGCGAG	6060
CATAGATGGT	CTGTTGAGAT	TTGCCGATAC	GATAGCCATG	TTTTTGCAAG	GTTTGGAAGA	6120
AATGACTGGT	GATTTCTTCT	TTTTTAAAGT	CCTTAATGAA	TTTTTCAGGA	ATAGAAGCAA	6180
CTTCATAAAC	TAGGGGAACT	TGGTCGGCAT	AGCGGACCCG	CTCCATTCGG	ATAATATTGT	6240
CCGTTGGAAA	AATTCCTAGC	TTGGCAACTT	CTTGCTCATT	GGGAATGGTT	TTTTTGTAGG	6300
AAATGAGCTG	GCTAGAGGGA	ACTITACCIT	GGGATTTGAC	AATTTCAGTA	AAACTGGTTG	6360
TCCCTCGCAT	CTTTTCTTGT	ACTCGAGTAC	TGGAAACAAA	GGTGCCGCTT	CCTACACGGC	6420
GCTCTAAGAC	GCCTTCTTCG	ACTAATAGAG	ATACGGCTTG	GCGGAGGGTC	ATGCGACTGA	6480
CCGCAAACTG	CTCAGCTAAA	TCTCTTTCAC	TGGGAAGCCT	CTCACCAATA	GCCCAACGGT	6540
ACTCGTCAAT	ATCCTTTTTT	ATCTGATCAT	GGATTTTTAT	ATAAGCAGGT	AGCATATTTT	6600
TCACTTCATT	TCTATCTTTT	CTCTATTGTA	CCCCAATAAA	CTAGAAAAAG	TCAAACTTCG	6660
CCTTGTTTAG	TTGGTAATTC	GCCCTTATTT	GTGATAGAAT	ATTGAGAAAA	GATATTTCTT	6720
TTGAGAAAGG	AAAAAGATGA	GCAACATTTC	AACTGATTTG	CAAGATGTAG	AAAAAATCAT	6780

			1036			
CGTATTGGAC	TATGGTAGCC	AGTACAACCA	GCTGATTTCA	CGCCGTATCC	GTGAGATTGG	6840
TGTTTTTTCA	GAACTAAAAA	GCCATAAAAT	TTCAGCTGCT	GAAGTTCGTG	AAGTCAATCC	6900
TGTAGGAATT	ATTCTATCAG	GTGGTCCAAA	TTCTGTATAT	GAAGATGGTT	CATTTGATAT	6960
TGACCCAGAA	ATCTTCGAAC	TCGGAATTCC	AATTTTGGGA	ATCTGTTATG	GTATGCAGTT	7020
ATTGACCCAT	AAACTTGGAG	GAAAAGTTGT	TCCTGCAGGT	GATGCTGGAA	ATCGTGAATA	7080
CGGTCAATCA	ACCCTAACTC	ACACACCATC	AGCGCTTTTT	GAATCAACAC	CTGATGAACA	7140
GACTGTTTTG	ATGAGCCATG	GTGATGCGGT	TACTGAGATT	CCTGCTGACT	TTGTTCGTAC	7200
AGGTACATCA	GCTGACTGCC	CATACGCAGC	CATCGAAAAC	CCAGATAAAC	ACATTTACGG	7260
TATCCAATTC	CACCCAGAAG	TTCGTCATTC	TGTATACGGA	AATGATATCC	TTCGTAACTT	7320
TGCCCTTAAC	ATTTGTAAGG	CTAAAGGTGA	CTGGTCAATG	GATAATTTCA	TTGACATGCA	7380
GATCAAAAA	ATTCGTGAAA	CCGTCGGTGA	TAAACGTGTC	CTTCTTGGTC	TATCAGGTGG	7440
TGTTGACTCA	TCTGTCGTTG	GGGTTCTTCT	CCAAAAAGCG	ATTGGCGATC	AATTGATCTG	7500
TATCTTCGTA	GACCACGGTC	TTCTTCGTAA	AGGCGAAGCT	GATCAAGTTA	TGGACATGCT	7560
CGGTGGTAAG	TTTGGTTTGA	ATATCGTCAA	AGCAGACGCT	GCTAAACGTT	TCCTTGACAA	7620
ACTTGCTGGC	GTTTCTGACC	CTGAACAAAA	ACGTAAAATC	ATCGGTAACG	AGTTTGTCTA	7680
TGTATTCGAT	GACGAAGCAA	GCAAGCTCAA	AGATGTGAAA	TTCCTTGCTC	AAGGTACTTT	7740
ATATACAGAT	GTTATCGAGT	CTGGTACGGA	TACAGCTCAA	ACTATCAAGT	CACACCACAA	7800
CGTGGtGGTC	TTCCAGAAGA	TATGCAGTTT	GAATTGATTG	AACCACTCAA	TACTCTTTAC	7860
AAGGATGAAG	TTCGTGCTCT	TGGTACAGAG	CTTGGTATGC	CAGACCATAT	CGTATGGCGC	7920
CAACCATTCC	CAGGACCAGG	ACTTGCTATC	CGTGTCATGG	GTGAAATCAC	TGAAGAGAAA	7980
CTTGAAACCG	TTCGTGAATC	AGACGCTATT	CTTCGTGAAG	AAATCGCTAA	AGCTGGACTT	8040
GACCGCGATA	TTTGGCAATA	CTTCACTGTT	AACACAGGCG	TTCGTTCAGT	CGGTGTTATG	8100
GGTGACGGTC	GTACGTATGA	CTACACGATT	GCAATCCGTG	CTATCACTTC	TATCGATGGT	8160
ATGACTGCTG	ATTTTGCCAA	AATTCCATGG	GAAGTACTTC	AAAAAATCTC	AGTACGTATC	8220
GTAAATGAAG	TGGATCATGT	TAACCGTATC	GTCTACGATA	TTACAAGTAA	ACCACCTGCA	8280
ACAGTTGAGT	GGGAATAATC	GCAAAAAAAT	TAAAAGCTTT	GTAAAATCAA	CGGTTACAGA	8340
GGATTAAAAA	CTGTAACTGG	GATTAAAACG	GGAACATTTG	CTAAAAAGAA	TAAATTGAAT	8400
AATAGTTCCA	AGTGGTTTAC	ATTTGGACAA	AAAATTAGAC	CGTAGTTTTC	AAGCTGCGGT	8460
CTTTTGATAT	ATATAATGAG	AATTAATGGC	TCTTTGTCAA	CTGTAGTGGG	TTGAAGTCAG	8520
СТАВССТССА	GAAAGGACAA	դարարագարար	մուն-արարարարարա	ATTATTO ACAC	CCATTAAAAA	0500

1037

CCGTTTTTTG	AAGTTTTCAA	AGTTCCGAAA	ACCAAAGGCA	TTGCGCTTGA	TAAGTTTGAT	8640
GAGATTATTG	GTCGCTTCCA	ATTTGGCGTT	AGAATAGTGT	AGTTGAAGGG	CGTTGACGAT	8700
TTTCTCTTTG	TCCTTTAGAA	AGGTTTTAAA	GACAGTCTGA	AAAAGAGGAT	GAACCTGCTT	8760
TAGATTGTCC	TCAATGAGTC	CGAAAAATTT	CTCCGGTTCC	TTATTCTGAA	AGTGAAACAG	8820
CAAGAGTTGA	TAGAGCTGAT	AGTGATGTTT	CAAGTCTTGT	GAATAGCTCA	AAAGCTTGTT	8880
TAAAATCTCT	TTATTGGTTA	AATGCATACG	AAAAGTAGGG	CGATAAAAAT	GTTTATCGCT	8940
GAGTTTACGA	CTATCCTGTT	GTATGAGCTT	CCAGTAGCGC	TTGATAGCCT	TGTATTCATG	9000
AGACTTTCGA	TCCAATTGAT	TCATGATTTG	AACACGCACA	CGACTCGG		9048

(2) INFORMATION FOR SEQ ID NO: 160:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 10399 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 160:

GTACCTTTAT	TGATGAATGG	ACTGTTTAAA	TCAGTAGCAC	GCCAACCAGA	TATGCTTTCT	60
GAGTTTCGTA	GTTTGATGTT	TTTAGGTGTT	GCCTTTATTG	AAGGAACTTT	CTTTGTAACT	120
CTTGTCTTCT	CATTTATTAT	САААТАААТА	CATGGAACGA	GAAGAAAAGG	GAGGATTTTA	180
GATGGAAGAA	AGTATTAATC	CAATCATCTC	TATTGGTCCT	GTTATCTTCA	ATCTGACTAT	240
GTTAGCCATG	ACTTTGTTGA	TTGTGGGAGT	TATTTTTGTC	TTTATTTATT	GGGCAAGCCG	300
CAATATGACC	TTGAAACCCA	AAGGAAAGCA	AAATGTACTT	GAGTATGTCT	ATGACTTTGT	360
TATTGGATTT	ACAGAACCTA	ACATTGGTTC	GCGCTACATG	AAAGATTACT	CACTCTTTTT	420
CCTTTGTTTA	TTCCTTTTCA	TGGTGATTGC	CAATAACCTT	GGCTTAATGA	CAAAGCTTCA	480
AACGATCGAT	GGGACTAACT	GGTGGAGTTC	GCCAACCGCT	AATTTACAGT	ATGACTTAAC	540
CTTATCTTTT	CTTGTCATTT	TGTTGACACA	TATAGAAAGC	GTTCGTCGTC	GTGGATTTAA	600
AAAAAGTATA	AAATCTTTTA	TGAGTCCTGT	TTTTGTCATA	CCGATGAATA	TCTTGGAAGA	660
ATTTACAAAC	TTCTTATCTT	TGGCTTTGCG	GATTTTTGGG	AATATCTTTG	CAGGAGAGGT	720
CATGACGAGT	TTGTTACTTC	TTCTTTCCCA	CCAAGCTATT	TATTGGTATC	CAGTAGCCTT	, 78 0
TGGAGCTAAT	TTGGCTTGGA	CTGCATTTTC	TGTCTTTATT	TCCTGCATCC	AAGCTTATGT	840
TTTTACTCTT	TTGACATCTG	TGTATTTAGG	GAATAAGATT	AATATTGAAG	AGGAATAGAA	900

			1038			
AGGAGTAACT	GATGCACGTA	ACAGTAGGTG	AATTAATTGG	TAATTTTATT	TTAATCACTG	960
GCTCTTTTAT	TCTTTTGCTA	GTCTTGATTA	AAAAATTTGC	ATGGTCTAAT	ATTACAGGCA	1020
TTTTCGAAGA	AAGAGCTGAA	AAAATTGCTT	CAGATATTGA	CAGAGCTGAA	GAAGCCCGTC	1080
AAAAAGCAGA	AGTATTGGCT	CAAAAACGCG	AAGATGAATT	GGCTGGTAGC	CGTAAAGAAG	1140
CTAAGACAAT	CATTGAAAAT	GCAAAGGAAA	CAGCTGAGCA	AAGTAAGGCT	AATATCTTAG	1200
CAGATGCTAA	ACTAGAAGCA	GGACACTTAA	AAGAAAAAGC	CAATCAAGAA	ATTGCTCAAA	1260
ATAAAGTAGA	AGCTTTACAG	AGTGTTAAGG	GTGAGGTCGC	AGATTTGACC	ATCAGCTTAG	1320
CTGGTAAAAT	CATCTCACAA	AACCTTGACA	GTCATGCCCA	TAAAGCACTC	ATTGATCAGT	1380
ATATCGATCA	GCTAGGAGAA	GCTTAATGGA	CAAGAAAACA	GTAAAGGTAA	TTGAAAAATA	1440
CAGCATGCCT	TTTGTCCAAT	TGGTACTTGA	AAAAGGAGAA	GAAGACCGTA	TCTTTTCAGA	1500
CTTGACTCAA	ATCAAGCAAG	TTGTTGAAAA	AACAGGTCTG	CCTTCTTTTT	TAAAACAAGT	1560
GGCAGTAGAC	GAGTCGGATA	AGGAAAAAAC	AATTGCTTTT	TTCCAAGATT	CTGTGTCGCC	1620
TTTATTACAA	AACTTTATCC	AGGTTCTGGC	CTACAATCAC	AGAGCAAATC	TTTTTTATGA	1680
TGTGCTTGTA	GATTGCTTGA	ACCGACTTGA	AAAAGAAACA	AATCGATTTG	AAGTGACGAT	1740
TACGTCTGCT	CATCCTCTAA	CTGATGAACA	GAAGACTCGT	TTGCTCCCTT	TGATTGAGAA	1800
AAAAATGTCT	CTGAAAGTAA	GGAGTGTAAA	AGAACAAATC	GATGAAAGTC	TCATTGGTGG	1860
TTTTGTCATT	TTTGCCAATC	ACAAGACAAT	TGATGTGAGT	ATTAAACAAC	AACTTAAAGT	1920
TGTTAAAGAA	AATTTGAAAT	AGAAAGTGGT	GTTCTTTTGG	CAATTAACGC	ACAAGAAATC	1980
AGCGCTTTAA	TTAAGCAACA	AATTGAAAAT	TTCAAACCCA	ATTTTGATGT	GACTGAAACA	2040
GGTGTTGTAA	CCTATATCGG	GGACGGTATC	GCGCGTGCTC	ACGGCCTTGA	AAATGTCATG	2100
AGTGGAGAGT	TGTTGAATTT	TGAAAACGGC	TCTTATGGTA	TGGCTCAAAA	CTTGGAGTCA	2160
ACAGACGTTG	GTATTATCAT	CCTAGGTGAC	TTTACAGATA	TCCGTGAAGG	CGATACAATC	2220
CGCCGTACAG	GGAAAATCAT	GGAAGTCCCT	GTAGGTGAAA	GTCTGATTGG	TCGTGTTGTG	2280
GATCCGCTTG	GTCGTCCAGT	TGACGGTCTT	GGAGAAATCC	ACACTGATAA	AACTCGTCCA	2340
GTAGAAGCAC	CAGCTCCTGG	TGTTATGCAA	CGTAAGTCTG	TTTCAGAACC	ATTGCAAACT	2400
GGTTTGAAAG	CTATTGACGC	CCTTGTACCG	ATTGGTCGTG	GTCAACGTGA	GTTGATTATC	2460
GGTGACCGTC	AGACAGGGAA	AACAACCATT	GCGATTGATA	CAATCTTGAA	CCAAAAAGAT	2520
CAAGATATGA	TCTGTATCTA	CGTCGCGATT	GGACAAAAAG	AATCAACAGT	TCGTACGCAA	2580
GTAGAAACAC	TTCGTCAGTA	CGGTGCCTTG	GACTACACAA	TCGTTGTGAC	AGCCTCTGCT	2640
ጥር እር ል አርር አጥ	CTCCATTCCT	СПИССПАССП	CCTTATICCTC	CCCMMCCMAM	CCCCCAACAA	2700

	TTTATGTATC	AAGGTAAGCA	TGTTTTGATT	GTATACGATG	ATCTATCAAA	ACAAGCGGTA	2760
	GCTTATCGTG	AACTGTCGCT	CTTGCTTCGT	CGTCCTCCAG	GTCGTGAAGC	CTTCCCAGGG	2820
	GATGTTTTCT	ATCTCCACAG	CCGTTTGCTT	GAGCGCTCAG	CTAAAGTTTC	TGATGAACTT	2880
	GGTGGTGGAT	CAATTACAGC	CCTACCATTT	ATCGAGACAC	AAGCAGGAGA	TATCTCAGCC	2940
	TATATCGCAA	CCAACGTGAT	TTCTATCACT	GATGGACAAA	TCTTCCTTGG	CGATGGCCTC	3000
	TTCAATGCAG	GTATTCGTCC	AGCCATCGAT	GCGGGTTCAT	CTGTATCTCG	TGTAGGTGGT	3060
	TCTGCACAAA	TCAAAGCCAT	GAAGAAGGTT	GCTGGTACAC	TTCGTATCGA	CCTTGCTTCA	3120
	TACCGTGAGT	TGGAAGCCTT	TACTAAGTTT	GGTTCTGACT	TGGACGCAGC	AACACAGGCT	3180
	AAGTTGAACC	GTGGACGTCG	TACCGTTGAG	GTCTTGAAAC	AACCTGTTCA	CAAACCATTA	3240
	CCTGTTGAGA	AACAAGTAAC	CATTCTTTAT	GCTTTGACAC	ATGGTTTCTT	GGATACTGTT	3300
	CCAGTAGATG	ATATTGTTCG	TTTCGAGGAA	GAGTTCCATG	CCTTCTTTGA	TGCTCAACAT	3360
	CCAGAGATTT	TGGAAACCAT	TCGTGATACA	AAAGACTTGC	CAGAAGAAGC	AGTCTTGGAT	3420
	GCTGCGATTA	CAGAGTTTCT	CAATCAATCT	AGCTTCCAAT	AAGAATAGAG	GTGTCAGATG	3480
	GCAGTATCTC	TAAATGATAT	TAAAACAAAA	ATCGCCTCAA	CAAAAAATAC	GAGTCAAATC	3540
	ACTAATGCCA	TGCAAATGGT	ATCGGCTGCT	AAGCTAGGTC	GTTCTGAAGA	AGCTGCTCGC	3600
	AACTTCCAAG	TTTACGCTCA	GAAAGTGCGT	AAACTTTTGA	CAGATATCCT	TCATGGTAAT	3660
,	GGAGCTGGTG	CTTCAACTAA	TCCGATGTTG	ATTAGCCGTT	CTGTGAAGAA	GACAGGCTAT	3720
	ATÇGTTATCA	CTTCAGACCG	CGGTTTGGTT	GGAGGTTATA	ATTCCTCTAT	TTTGAAAGCT	3780
4	GTTATGGAGT	TGAAAGAAGA	ATACCACCCA	GACGGTAAAG	GTTTTGAAAT	GATCTGTATC	3840
1	GGTGGGATGG	GAGCTGATTT	CTTTAAGGCT	CGCGGTATTC	AACCACTTTA	TGAATTACGT	3900
(GGCTTGTCAG	ACCAACCTAG	CTTTGATCAA	GTTCGTAAGA	TTATTTCAAA	AACTGTTGAA	3960
	ATGTACCAAA	ATGAACTCTT	TGATGAGCTT	TATGTTTGCT	ACAACCACCA	TGTCAATACG	4020
(CTAACCAGTC	AAATGCGTGT	GGAACAAATG	CTTCCGATTG	TTGACTTGGA	TCCAAATGAA	4080
(GCGGATGAAG	AGTACAGCTT	GACTTTTGAA	TTGGAAACCA	GCCGAGAAGA	AATTCTGGAG	4140
1	CAGTTGTTGC	CTÇAGTTTGC	AGAAAGTATG	ATTTACGGTG	CCATTATCGA	TGCCAAGACA	4200
(GCTGAGAATG	CTGCGGGCAT	GACAGCCATG	CAAACAGCGA	CAGATAATGC	TAAGAAAGTC	4260
i	ATCAATGATT	TGACAATTCA	GTATAACCGT	GCCAGACAGG	CGGCGATTAC	ACAAGAAATT	4320
i	ACAGAAATCG	TAGCAGGTGC	TAGTGCCTTA	GAATAGGCTC	TAGTCCAGCT	CGTATGAAAA	4380
•	FGAACTTAGG	ACCTAGTTGA	GCTAGGAACC	GACAGTATCT	TATATAGAAT	AGGAGAAGGA	4440

			1040			
GATGAGTTCA	GGTAAAATTG	CTCAGGTTAT	CGGTCCCGTT	GTAGACGTTT	TGTTTGCAGC	4500
AGGGGAAAAA	CTTCCTGAGA	TTAACAATGC	ACTTGTCGTC	TACAAAAATG	ACGAAAGAAA	. 4560
AACAAAAATC	GTCCTTGAAG	TAGCCTTGGA	GTTAGGAGAT	GGTATGGTTC	GTACTATCGC	4620
CATGGAATCA	ACAGATGGGT	TGACTCGTGG	AATGGAAGTA	TTGGACACAG	GTCGTCCAAT	4680
CTCTGTACCA	GTAGGTAAAG	AAACTTTGGG	ACGTGTCTTC	AACGTTTTGG	GAGATACCAT	4740
TGACTTGGAA	GCTCCTTTTA	CAGAAGACGC	AGAGCGTCAG	ССААТТСАТА	AAAAAGCTCC	4800
AACTTTTGAT	GAGTTGTCTA	CCTCTTCTGA	AATCCTTGAA	ACAGGGATCA	AGGTTATTGA	4860
CCTTCTTGCC	CCTTACCTTA	AAGGTGGTAA	AGTTGGACTT	TTCGGTGGTG	CCGGAGTTGG	4920
TAAAACTGTC	TTAATCCAAG	AATTGATTCA	CAACATTGCC	CAAGAGCACG	GTGGTATTTC	4980
AGTATTTGCT	GCTGTTGGGG	AACGTACTCG	TGAGGGGAAT	GACCTTTACT	GGGAAATGAA	5040
AGAATCAGGC	GTTATCGAGA	AAACAGCCAT	GGTCTTTGGT	CAGATGAATG	AGCCACCAGG	5100
AGCACGTATG	CGTGTTGCCC	TTACTGGTTT	GACAATCGCT	GAATACTTCC	GTGATGTGGA	5160
AGGCCAAGAC	GTGCTTCTCT	TTATCGATAA	TATCTTCCGT	TTCACTCAGG	CTGGTTCAGA	5220
AGTATCTGCC	CTTTTGGGTC	GTATGCCATC	AGCCGTTGGT	TACCAACCAA	CACTTGCTAC	5280
GGAAATGGGT	CAATTGCAAG	AACGTATCAC	ATCAACCAAG	AAGGGTTCTG	TAACCTCTAT	5340
CCAGGCTATC	TATGTGCCAG	CGGATGACTA	TACTGACCCA	GCGCCAGCAA	CAGCCTTCGC	5400
TCACTTGGAT	TCAACAACAA	ACTTGGAACG	TAAGTTGGTA	CAATTGGGTA	TCTACCCAGC	5460
CGTTGACCCA	CTTGCTTCAA	GCTCACGTGC	CTTGGCACCT	GAAATCGTTG	GAGAAGAGCA	5520
CTATGCAGTT	GCTGCTGAAG	TAAAACGTGT	CCTTCAACGT	TACCATGAAT	TGCAAGATAT	5580
CATTGCTATC	CTTGGTATGG	ATGAGCTTTC	TGATGAAGAA	AAGACCTTGG	TTGCTCGCGC	5640
CCGTCGTATC	CAGTTCTTCT	TGTCACAAAA	CTTCAACGTT	GCGGAACAAT	TTACTGGTCA	5700
GCCAGGTTCT	TATGTTCCAG	TTGCTGAAAC	TGTACGTGGC	TTTAAGGAAA	TCCTTGATGG	5760
TAAATACGAC	CACTTGCCAG	AAGATGCCTT	CCGTGGTGTA	GGTTCTATCG	AAGATGTGAT	5820
TGCAAAAGCT	GAAAAAATGG	GATTTTAAGA	GGTGATCTAT	GGCTCAGTTA	ACTGTCCAGA	5880
TCGTGACACC	AGATGGTCTC	GTCTATGATC	ACCATGCCAG	CTATGTATCG	GTTCGAACTC	5940
TGGATGGTGA	GATGGGGATC	TTGCCACGAC	ATGAAAATAT	GATTGCGGTT	TTAGCAGTTG	6000
ATGAAGTAAA	GGTAAAACGT	ATCGATGATA	AAGATCACGT	GAACTGGATT	GCAGTAAACG	6060
GTGGCGTTAT	TGAAATTGCC	AATGATATGA	TCACAATCGT	CGCTGACTCT	GCAGAACGTG	6120
CTCGTGATAT	CGATATCAGT	CGTGCAGAAC	GTGCCAAACT	TCGTGCAGAA	CGTGCAATTG	6180
AAGAAGCACA	AGACAAACAT	TTGATTGACC	AAGAACGTCG	TGCTAAGATT	GCTTTGCAAC	6240

GTGCTATTAA	CCGTATTAAT	GTCGGAAATA	GACTATAAGA	AAAAATGAAC	TTGAAAATAC	6300
CAAGTTCATT	TTTTATGGTG	TTTTAAGGAG	CAAAACGGAT	GCAGACTGCT	TCGGGAACAT	6360
GGAAGTCGTT	GGAGAGTTCT	GCTAGACGAC	CATTGTCACA	ATTACGTTTA	AAGACAGTTG	6420
CATTGTCAGA	GTCTTGATGG	ACAACAATGA	GAAATTTTTG	GTCGGGTGTC	AAATCAAAAT	6480
CACGTGGAGT	CTGACCATGC	GTTGGAACGA	TTTCTAATAA	CTCTAAGCTA	CCGTCCGCAA	6540
GGATGGTATA	TACTGCGATA	GAATCATGGC	CACGGTTAGA	AGCGTAGAGG	TATTTACCGT	6600
CTTTAGAGAG	ATGAATAGCA	GCGGTTCCAT	TAAAGCCTTC	GTAAGCTTCC	GGTAAAGTTG	6660
AAATGACCTG	CATACGTTCA	AATTCGCCAA	CGCCATCGTA	GATTAAAACT	TCGATAGTAC	6720
TATTGAGTTC	ACAAATGAGA	TAAGCGATTT	TATAGTGGTT	ATGGAAAATG	ATATGGCGTG	6780
AGCCTGCTCC	TGGCTTGCTG	TGATAGGTAT	AGAGCTTAGA	TAATTTTCCT	TCTTGATCGA	6840
GGTCATAGGT	GATGACTTGG	TCAGTTCCCA	AGTCGCAGGT	CACTAGATAG	TGGTCAGGTG	6900
TTAAATCTGT	ATAGTGAACA	TGGGGGGAAG	CTTGATTTTC	ATGTGGACCT	TGGCCACTGT	6960
GTTGATCCAT	ATCACTAAGT	AGAAGACTAC	CATCTTCCTG	GCGTTTATAA	ACAAGGACTT	7020
GTCCCTTGTG	ATAGTTAGCT	GCGTAAACCA	AATCACGCTT	TTCATCGACA	GCAACATAAC	7080
AGTGGGGAGC	TCCTTCTTCA	ACAACATGAT	TTAACACAGT	CCCGTCAGTT	TGATAGGCTG	7140
CAATTCCCCC	CTTATCGTCT	TGGCTACCAA	CAGTGTATAA	ATGTTGGTGC	TGGTCAAAGG	7200
CAAGGTAGGT	TGGACTTGGC	TCAGCTGCAA	AAAGTTCTAG	ATTTGAAAGC	TGACCAGTTT	7260
CTGTATCAAA	GTCTGCCTTG	TAAATCCCTT	GAGAAGTACG	ACGTGTATAA	GTTCCAAAAT	7320
AAACAGTTTC	TTTCATTACT	ATACCTCTGT	GTAAAGATAA	GACTATTATA	TCACAAAAAC	7380
AAGTAAATTA	AAGATATCCA	ATTAGATGTA	AGCACTTTAA	AAAAGAGTTA	TTTTGTTTCA	7440
AAAATGGTAT	AATGAGAGAA	CAATAGAAAG	GAAGTATTTA	TGGAGCAAAA	AGAGAAACAT	7500
TTTAGCCTAT	CTTGGTTTTT	CAAGTGGTTT	TTAGATAACA	AGGCAATTAC	GGTATTTTTA	7560
GTAACCTTAT	TATTGGGACT	GAATCTTTTT	ATTTTAAGTA	AGATTAGTTT	TCTATTTTCA	7620
CCTGTTTTAG	ACTTTTTAGC	AGTTGTGATG	TTGCCAGTCA	TTTTGTCTGG	TTTGTTATAT	7680
TATTTGTTGA	ATCCTATTGT	TGATTGGATG	GAGAAGCATA	AGGTTAATCG	TGTTATAGCT	7740
ATCACTATTG	TCTTTGTTAT	CATCGCTCTC	TTTATCATTT	GGGGCTTGGC	AGTCGCCATT	7800
CCAAATCTGC	AACGTCAGGT	TTTGACCTTT	GCAAGAAACG	TTCCTGTTTA	CTTAGAAGAT	7860
ATAGATAGGA	TTGTTAATGG	ATTGGTAGCC	CAGCACCTGC	CAGATGATTT	CAGACCTCAA	7920
TTAGAGCAAG	TTTTGACCAA	TTTTTCTAGC	CAGGCTACAG	TTTTGGCAAG	TAAGGTTTCA	7980

			1042			
TCTCAGGCAG	TCAACTGGGT	GAGTGCCTTT	ATTAGCGGGG	CTTCTCAAGT	GATTGTTGCC	8040
TTGATTATCG	TTCCTTTCAT	GCTCTTTTAT	CTCTTGCGTG	ATGGGAAAGG	CTTGCGTAAC	8100
TATTTGACCC	AATTCATTCC	AAGAAAATTG	AAGGAACCTG	TTGGACAAGT	TTTATCAGAT	8160
GTGAATCAAC	AGTTGTCCAA	CTATGTTCGA	GGGCAAGTGA	CAGTGGCTAT	TATTGTAGCA	8220
GTAATGTTTA	TCATCTTCTT	CAAGATTATT	GGTCTACGCT	ATGCGGTTAC	GCTGGGGGTT	8280
ACTGCTGGTA	TTTTAAATCT	GGTCCCTTAT	CTTGGTAGCT	TTCTAGCCAT	GCTTCCTGCT	8340
CTAGTATTGG	GTTTGATTGC	TGGTCCAGTC	ATGCTTTTGA	AAGTAGTGAT	TGTCTTTATC	8400
GTAGAACAAA	CTATTGAAGG	CCGTTTTGTC	TCTCCATTGA	TTTTGGGAAG	TCAATTAAAC	8460
ATCCACCCTA	TTAATGTTCT	CTTTGTTTTG	TTAACTTCAG	GATCTATGTT	TGGTATCTGG	8520
GGAGTTTTAC	TTGGTATTCC	GGTTTATGCC	TCTGCTAAGG	TTGTCATTTC	AGCCATTTTC	8580
GAATGGTATA	AGGTAGTCAG	TGGTCTATAT	GAATTAGAGG	GTGAGGAAGT	CAAGAGTGAA	8640
CAATAGTCAA	CAGATGTTAC	AGGCTTTGGA	GGAGCAAGAT	TTAACTAAGG	CTGAGCATTA	8700
TTTCGCCAAA	GCTTTAGAAA	ATGATTCAAG	TGATCTTCTG	TATGAATTGG	CAACTTATCT	8760
TGAAGGGATT	GGTTTCTATC	CTCAGGCCAA	GGAAATTTAC	CTGAAAATTG	TAGAGGATTT	8820
TCCAGAGGTT	CATCTTAATC	TAGCTGCAAT	TGCTAGCGAG	GATGGTCAAA	TAGAAGAAGC	888
CTTTACCTAT	CTTGAGGAAA	TCCAAGCTGA	CAGTGACTGG	TATGTCTCGT	CTTTGGCTCT	8940
GAAGGCAGAC	CTTTACCAGC	TGGAAGGTTT	GACAGATGTG	GCACGTGAGA	AATTATTGGA	9000
GGCCTTGACC	TACTCAGAGG	ATTCTCTCTT	GATATTGGGT	TTGGCAGAGT	TGGATAGTGA	9060
GTTGGAAAAT	TACCAAGCGG	CTATTCAAGC	CTATGCCCAG	TTAGATAATC	GCTCGATTTA.	9120
TGAGCAAACG	GGCATTTCCA	CCTATCAACG	AATTGGCTTT	GCCTATGCTC	AGTTAGGGAA	9180
ATTTGAAACG	GCTACTGAGT	TTTTAGAAAA	AGCCCTGGAG	TTAGAATACG	ATGACTTAAC	9240
AGCTTTTGAG	TTGGCCAGTC	TTTATTTTGA	TCAAGAAGAA	TATCAAAAAG	CCACCCTCTA	9300
CTTTAAGCAG	CTTGATACCA	TTTCTCCTGA	CTTTGAAGGC	TATGAGTATG	GGTACAGTCA	9360
GGCTTTACAT	AAGGAACATC	AAGTTCAAGA	AGCCCTGCGT	ATCGCTAAGC	AAGGATTAGA	9420
GAAAAATCCC	TTTGAAACTC	GCCTCTTGCT	AGCTGCTTCA	CAATTTTCTT	ATGAATTGCA	9480
TGATGCTAGT	GGTGCAGAAA	ATTATCTCCT	TACTGCAAAA	GAAGACGCTG	AGGATACAGA	9540
AGAAATCTTG	CTTCGTTTAG	CCACTATTTA	TCTGGAGCAG	GAGCGTTATG	AGGATATTCT	9600
AGAATTGCAG	AGTGAGGAGC	CAGAAAATCT	TTTGACCAAG	TGGATGATTG	CTCGTTCTTA	9660
TCAAGAAATG	GACGATTTGG	ATACTGCTTA	TGAGTATTAT	CAAGAGTTGA	CAGGAGATTT	9720
GAAGGACAAT	CCAGAATTTC	TGGAACACTA	TATCTATCTC	TTGCGTGAAT	TGGGACATTT	9780

1043

TGAAGAAGCA	AAAGTCCATG	CTCACACTTA	CTTAAAACTG	GTTCCAGATG	ATGTGCAAAT	9840
GCAAGAACTG	TTTGAGAGAT	TGTAAGAATG	TTTAACCCAA	ATCATTCATA	CCTCTCTCAA	9900
CTAGATGTAA	CTTACAAAAC	CCCTGACCTC	ATGAGCCACT	TTCTTCCTCC	TCATGAGGTC	9960
AGTTTTACTT	TCTGCTGTTC	CAGTATCGTT	TTTCCTCGCT	AGATTTCCTC	AAAAGGGCAG	10020
ACTCCTCCCT	TGGTGCGTCA	CACGATTTTT	TCATCTCGAC	TGTTCTTTAA	TGCATCATTA	10080
ACGACGCTTT	TCTTCTAGGT	GGTTCATAAG	GAACAGGAAG	ATTCAGGTTG	ACTTTTCTAA	10140
TCCTAGAATA	AAGTGCTGAA	AACAATTCGG	AATAGGCATA	GAGACTAGAC	AATTTGAGGA	10200
GCTGCTTGCG	TCCTGTTCGA	ACACATTTTC	CCACCACGTG	AAGAAAAAGA	TGGCGGAAGC	10260
GTTTGATTGT	TAAAGTTTGG	AAGTCACCTC	CAGCTAGATG	TTTGAGAAAA	AGATAGAGAT	10320
TGTAGGCGAT	ACAGCTCATC	ATCATACGAA	TTCGTTTTTG	ATTAAGGTTG	AACTATCCGT	10380
TTTATCGCCA	AAAAATCGG					10399

(2) INFORMATION FOR SEQ ID NO: 161:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 9409 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 161:

GATAAGATTA	AGTTAGAAAA	GAAAGAACTA	GGACATATCT	ACCAGATTCA	GGTTTTTAAT	60
AGCTATGGGC	AGGAAGAAAT	CTATCGTGTG	ATTTTGATGG	AGACCAATAT	TAGTTCGGTT	120
тсаассаата	TCAAGTATGC	TGCTGTCTTG	ATTAATACCA	GTCAGTTGGA	ACAGGCTAGT	180
CAAAAGCATG	AGCAATTGAT	TGTGGTCGTG	ATGGCTAGTT	TCTGGATTTT	GTCTTTACTT	240
GCCAGTCTCT	ATCTAGCTAG	GGTCAGTGTT	AGGCCCCTGC	TTGAGAGTAT	GCAGAAGCAA	300
CAGTCTTTTG	TGGAAAATGC	CAGTCATGAG	TTACGAACTC	CACTCGCAGT	TTTGCAAAAT	360
CGCTTAGAGA	CCCTTTTTCG	TAAGCCAGAA	GCTACCATTA	TGGATGTGAG	CGAAAGCATT	420
GCATCGAGTT	TGGAAGAAGT	CCGAAATATG	CGTTTTTTAA	CGACAAGCTT	GCTGAACTTA	480
GCTCGGAGAG	ATGATGGGAT	TAAGCCGGAG	CTTGCAGAAG	TTCCAACTAG	CTTTTTTAAT	540
ACAACTTTCA	CAAACTACGA	GATGATTGCT	TCGGAAAATA	ATCGTGTCTT	CCGTTTTGAA	600
AATCGTATCC	ATCGAACAAT	TGTCACAGAT	CAGCTTCTTC	TGAAACAACT	GATGACCATT	660
CTTTTCGATA	ATGCCGTCAA	GTATACTGAG	GAGGATGGTG	AAATTGATTT	TCTTATCTCG	720

			1044			
GCGACCGATC	GCAATCTTTA	TTTACTTGTT	TCTGATAATG	GAATCGGTAT	TTCGACAGAA	780
GATAAAAAGA	AAATTTTTGA	CCGTTTTTAT	CGAGTAGACA	AGGCTAGAAC	CCGGCAAAAA	840
GGTGGTTTTG	GTTTAGGATT	ATCCCTAGCC	AAGCAAATTG	TAGATGCTCT	AAAAGGAACT	900
GTTACTGTCA	AAGATAATAA	ACCCAAGGGA	ACAATCTTTG	AAGTGAAGAT	TGCCATTCAG	960
ACACCATCTA	AAAAGAAAA	ТАТААААТАТ	CGCTCCAATT	GGGGCGATAT	TTTGGATTTA	1020
TCTTCTACGT	TTTCGTTTGA	TAATAGACCG	TTGAACTTTT	AAAACAAGTA	AGCTGAATCC	1080
GATTGCTGCG	GCAAAGGCAA	GAGCAGTTGA	TAATTTTAAT	GCTAAAAAGA	ТААААСТААА	1140
GATAGCAATA	CAGATACAAA	AAACAGCGAT	AAAATAAATA	AATAGGATTT	CCTTGAGATT	1200
GGCATCAGAT	TGCGCTTCAG	GTGTATAAGC	TTGGTAATGA	GGAAGCTGCT	GGTTTAATTC	1260
TTCTTGATAG	TCTACCTCAT	aggattgtaa	TTTTCTTACG	GGCATGATTC	TCTCCTTAAC	1320
AGTACATACC	TATTTTATCA	TTTTTTCGGC	AGAGAATTAT	TACAGAAAGG	TTACAAAAAG	1380
AATAAAGTCC	CTTTTCATTT	TCAAAGCATG	GCTGATTTTG	GAGAAATGTG	GTATAATTTT	1440
TCTTATGGAA	AAGATTGTCA	TTACAGCAAC	TGCTGAAAGT	ATTGAACAAG	TTGAACAACT	1500
ACTCGAAGCT	GGCGTAGACC	GTATCTATGT	CGGTGAGAAA	GATTTTGGTC	TTCGTCTGCC	1560
AACGACCTTT	AGTTATGACC	AATTACGTGA	AATCGCTAAG	TTGGTTCATG	ATGCTGGTAA	1620
GGAATTGATC	GTTGCGGTCA	ATGCTCTCAT	GCACCAAGAT	ATGATGGACC	GTATCAAGCC	1680
TTTCTTAAAC	TTCTTGGAAG	AAATCAAGAC	AGACTATATT	ACGATTGGGG	ATGCAGGCGT	1740
CTTTTACGTA	GTTAACCGCG	ATGGTTATTC	ATTTAAGACC	ATCTACGATG	CTTCAACCAT	1800
GGTAACTAGC	AGTCGTCAGA	TTAACTTCTG	GGGACAAAAG	GCTGGCGCAT	CTGAGGCTGT	1860
TTTGGCGCGT	GAAATTCCAT	CAGCTGAACT	TTTCAAAATG	CCAGAGATTT	TGGAAATTCC	1920
TGCTGAAGTT	TTGGTTTACG	GTGCTAGCGT	CATCCATCAT	TCTAAACGTC	CACTCTTGCA	1980
AAACTACTAT	AACTTTACAC	ATATCGATGA	TGAAAAGACG	CATAAACGTG	ACCTCTTCTT	2040
GGCTGAGCCA	AGTGATCCAG	AGAGCCACTA	TTCCATTTTT	GAAGATAATC	ATGGGACCCA	2100
TATCTTTGCC	AACAATGACC	TTGATTTGAT	GATCAAATTA	ACAGAATTGG	TGGAGCATGG	2160
CTTTACTCGC	TGGAAACTAG	AAGGGCTCTA	CACTCCTGGT	CAGAACTTTG	TTGAGATTGC	2220
AAAACTCTTT	ATCCAAGCGC	GTAGCTTGAT	TCAAGAGGGC	AACTTTAGTC	ATGCTCAAGC	2280
CTTCTTGCTG	GATGAAGAAG	TTCGTAAACT	TCACCCTAAA	AACCGTTTCC	TTGATACAGG	2340
ATTTTATGAC	TACGATCCTG	ACATGGTTAG	АТААААТАСА	TGATTCGTTG	AGAGAAGGAA	2400
GATGCAAACA	TTTCTTCTCT	CAATTTTTCG	TATTTCTTCA	CTATTTTACA	AAAATCAGCA	2460
GGCTAGAATG	СТСТАТТССА	ጥርርር ርልባጥጥጥ	AAGAAAAGTA	CTCTTCTTCA	COTTO	2520

ГАТССТАТО	TTGCAGGTGC	CAAATGGCCC	TTTTTTTGGT	ATAATTTTTT	ATAATGAAAA	2580
CGATTGGT	AA TCGCTATGTT	GTGGTGGATT	TAGAGGCAAC	TAGCACAGGT	AGTAAGGCTA	2640
AAATTATC(CA AGTGGGAATT	GTCGTGATTG	AGGACGGAGA	AATCGTCGAT	CACTATACGA	2700
CGGATGTC	AA TCCACATGAA	CCCTTGGATG	CTCATATCAA	AGAACTGACA	GGATTGACAG	2760
ACCAACGT	CT GGCGCAAGCA	CCTGATTTTT	CGCAAGTTGC	CAGAAAAATA	TTTGACTTGG	2820
rggaggaty	G GATTTTTGTA	GCCCATAATG	TTCAGTTTGA	TGCTAATCTC	TTGGCGGAAA	2880
ATTTATTT	TT TGAAGGCTAT	GAGCTAAGAA	ACCCTCGTGT	TGATACGGTC	GAATTGGCCC	2940
AGGTCTTT	TT CCCTGAACTG	GAAAAATATA	GCTTGCCGAT	TTTGTGTCGA	GAATTAGGAA	3000
TTCCTCTT/	A ACACGCACAC	ACAGCCCTTT	CAGATGCCCA	AGCTACAGCA	GAATTACTTC	3060
PTTTTTA(CG GAAAAAGATG	ACCCAGCTTC	CTAAAGGTCT	CTTGGAACGC	TTGCTGGAAA	3120
rggctgac	С ТСТССТАТАТ	GAGTCCTACC	TGGTTATTGA	GGAAACTTAT	CGCAACCAAT	3180
CTATCCTG	G TTCTCCAGAC	TTGGTCCAAG	TTCAAGGTCT	ATATTTTAAG	AAAACGGAAG	3240
CTTCTCTG	GA GCCACGAAAA	CTATCTCAAG	ACTTTTCTAA	AAATATTTCT	CTGTTGAACC	3300
TGAAGTG	G GGAGGAACAA	GAAAGTTTTG	CTAAAGAGGT	TGGCTTGCTA	TTGAAAGATG	3360
ACCTGTC	C TCTGATTCAA	GCGCCGACAG	GGATTGGGAA	AACCTATGGC	TATCTCTTAC	3420
CCGCTTTAT	C TCAATCCAAA	GAGCGACAAA	TTGTTCTTAG	TGTTCCGACA	AAGATTCTTC	3480
AAAATCAA/	AT CATGGAAGAA	GAAGGTAAAC	GCCTCAAGGA	AGTGTTCCAT	ACAGATATTC	3540
ATAGCTTA!	AA GGGACCACAA	AATTATCTGA	AGTTGGATGC	CTTTTATCAT	TCCTTGCAGG	3600
AAATGAT (GA AAATCGCTTA	TTTAGACGCT	TTAAAATGCA	AGTCTTGGTC	TGGCTTACTG	3660
AGACAGAG <i>I</i>	AC AGGAGATTTG	GATGAAATCG	GGCAACTCTA	CCGTTACCAA	CATTTTCTAG	3720
CAGACCTTC	CG TCATGATGGG	AATTTATCAT	CCCAGAGCTT	ATTTGTGACG	GAAGATTTTT	3780
GAAACGT/	NG TCAAGAAAGG	GCAGAGACTT	GCAAGCTTTT	AGTGACTAAT	CATGCCTATC	3840
CGTAACCA	G ACTTGAAGAT	AATCCTGAAT	TTGTCAGTGA	CCGTTTACTG	ATTATTGATG	3900
AGTCCAA	A GATTTTGTTA	GCTCTAGAAA	ATCTGCTTCA	AGAGACCTAC	GATATACAAT	3960
TATTATCO	SA TTTAATTGAT	AAGGCTTTAG	TAGGAGAAGA	AAACAGGGTT	CAACAACGGA	4020
PACTAGAA	AG TATTCGCTTT	GAGTGTCTCT	ACTTGATAGA	ACAATTTCAG	TCTGGCAAAT	4080
TAGGAAA	A TATCTTAGAT	TCTCTGGACA	ATCTCCATCA	GTATTTTTCA	GAATTGGAAG	4140
PAGAAGAC1	T TGATGAGCTG	GTTCGCTATT	TTACAGCTGA	AGGTGATTAC	TGGCTTGAAG	4200
TAACTGAA	C GAGTCAAAAG	AAAATTCAGA	TTTCTTCTAC	AAAATCAGGC	CGTACTCTTC	4260

TGTCCTCTTT	ACTTCCTGAG	AGTTGCCAAG	1046 TCTTGGGAGT	ATCGGCTACT	CTTGAGATTA	4320
GTCAGAGGGT	TTCTTTGGCA	GACCTTTTAG	GCTATCCTGA	AGCTAAATTT	GTCAAGATTG	4380
AATCTCGGGG	AAAACAGGAA	CAAGAAGTGG	TCATGGTCAA	AGATTTCCCT	CTGGTAACAG	4440
AAACCTCCTT	AGAAGTCTAT	GCCAGAGAGG	TAGCTGCTTT	ACTAGTGGAA	, ATTCAAGCTT	4500
TCCAGCAACC	GATTTTGGTT	CTCTTTACCG	CTAAAGACAT	GCTTCTAGCA	GTATCGGATT	4560
TACTTACAGT	TAGCCACTTG	GCCCAGTATA	AAAATGGGGA	TGTTCATCAG	CTAAAGAAAC	4620
GCTTTGAAAA	AGGTGAACAA	CAAATCTTGC	TTGGTGCAGC	AAGTTTCTGG	GAGGGAGTTG	4680
ATTTTTCAAG	CCATCCTTCT	GTGATTCAAG	TTGTACCGAG	GCTTCCTTTC	CAAAATCCTC	4740
AAGAACCCTT	GACGAAAAAG	ATTAATCAAG	AACTGAATCA	AGAAGGGAAA	AATGCCTTTT	4800
ATGATTATCA	ATTGCCAATG	GCCATTATTC	GTTTAAAACA	GGCTTTGGGA	AGAAGTATGA	4860
GACGTGAATA	CCAACGTTCC	TTAACTCTTA	TTTTGGATAG	GAGAATCGTC	GGAAAACGAT	4920
ACGGCAAACA	AATAGTAGCA	TCTCTAGCAG	AAGAAGCGAC	TGTTAAAACC	ATCTCTCGAT	4980
CCGAAGTTGA	CGAGGCTATT	GATAGATTTT	TTAATGAGCT	TTGATAAATA	GTATTGTATG	5040
AAAGTATAAG	GTTAGTATAT	ATGAAACGTT	CTCTCGACTC	AAGAGTCGAT	TACAGTTTGC	5100
TCTTGCCAGT	ATTTTTTCTA	CTGGTCATCG	GTGTGGTGGC	TATCTATATA	GCCGTTAGTC	5160
ATGATTATCC	CAATAATATT	CTGCCCATTT	TAGGGCAGCA	GGTCGCCTGG	ATTGCCTTGG	5220
GGCTTGTGAT	TGGTTTTGTG	GTCATGCTCT	TTAATACAGA	ATTTCTTTGG	AAGGTGACCC	5280
CCTTTCTATA	TATTTTAGGC	TTGGGACTTA	TGATCTTGCC	GATTGTATTT	TATAATCCAA	5340
GCTTAGTTGC	ATCAACGGGT	GCCAAAAACT	GGGTATCAAT	AAATGGAATT	ACCCTATTCC	5400
AACCGTCAGA	ATTTATGAAG	ATATCCTATA	TCCTCATGTT	GGCTCGTGTC	ATTGTCCAAT	5460
TTACAAAGAA	ACATAAGGAA	TGGAGACGCA	CGGTTCCGCT	GGACTTTTTG	TTAATTTTCT	5520
GGATGATTCT	CTTTACCATT	CCAGTCCTAG	TTCTTTTAGC	ACTTCAAAGT	GACTTGGGGA	5580
CGGCTTTGGT	TTTTGTAGCC	ATTTTCTCAG	GAATCGTTTT	ATTATCAGGG	GTTTCTTGGA	5640
AAATTATTAT	CCCAGTATTT	GTGACTGCTG	TAACAGGAGT	TGCTGGTTTC	TTAGCTATCT	5700
TTATTAGCAA	GGACGGACGA	GCTTTTCTTC	ACCAGATTGG	AATGCCGACC	TACCAAATTA	5760
ATCGGATTTT	GGCTTGGCTC	AATCCCTTTG	AGTTTGCCCA	AACAACGACT	TACCAGCAGG	5820
CTCAAGGGCA	GATTGCCATT	GGGAGTGGTG	GCTTATTTGG	TCAGGGATTT	AATGCTTCGA	5880
ATCTGCTTAT	CCCAGTTCGA	GAGTCAGATA	TGATTTTTAC	GGTTATTGCA	GAAGATTTTG	5940
GCTTTATTGG	CTCTGTCCTG	GTTATTGCCC	TCTATCTCAT	GTTGATTTAC	CGTATGTTGA	6000
AGATTACTCT	TAAATCAAAT	AACCAGTTCT	ACACTTATAT	TTCCACAGGT	TTGATTATGA	6060

TGTTGCTCTT	CCACATCTTT	GAGAATATCG	GTGCTGTGAC	TGGACTACTT	CCTTTGACGG	6120
GGATTCCCTT	GCCTTTCATT	TCGCAAGGGG	GATCAGCTAT	TATCAGTAAT	CTGATTGGTG	6180
TTGGTTTGCT	TTTATCGATG	AGTTACCAGA	CTAATCTAGC	TGAAGAAAAG	AGCGGAAAAG	6240
TCCCATTCAA	ACGGAAAAAG	GTTGTATTAA	AACAAATTAA	ATAAGGAGAA	AATCATGGTA	6300
AAAGTAGCAG	TTATATTAGC	TCAGGGCTTT	GAAGAAATTG	AAGCCTTGAC	AGTTGTAGAT	6360
GTCTTGCGTC	GAGCCAATAT	CACATGTGAT	ATGGTTGGTT	TTGAAGAGCA	AGTAACGGGT	6420
TCGCATGCAA	TCCAAGTAAG	AGCAGATCAT	GTCTTTGATG	GAGATTTATC	AGACTATGAT	6480
ATGATTGTTC	TTCCTGGAGG	TATGCCTGGT	TCTGCACATT	TACGTGATAA	TCAGACCTTG	6540
ATTCAAGAAT	TGCAAAGCTT	CGAGCAAGAA	GGGAAGAAAC	TAGCAGCCAT	TTGTGCGGCA	6600
CCAATTGCCC	TCAATCAAGC	AGAGATATTG	AAAAATAAGC	GATACACTTG	TTATGACGGC	6660
GTTCAAGAGC	AAATCCTTGA	TGGTCACTAC	GTCAAGGAAA	CAGTAGTGGT	AGATGGTCAG	6720
TTGACAACCA	GTCGGGGTCC	TTCAACAGCC	CTTGCCTTTG	CCTACGAGTT	GGTGGAGCAA	6780
CTAGGAGGGG	ACGCAGAGAG	TTTACGAACA	GGAATGCTCT	ATCGAGATGT	CTTTGGTAAA	6840
AATCAGTAAA	ACGGGAGTTA	TTCTCTCGTT	TTTTATGTGG	AAAACTCAGG	GAAATCATCG	6900
CTTTTTTCAT	AAAAAAATGC	TATAATGAAG	GGTATGAAAT	ATCACGATTA	CATCTGGGAT	6960
TTAGGTGGAA	CTTTACTGGA	TAATTATGAA	ACTTCAACAG	CTGCATTTGT	TGAAACATTG	7020
GCACTGTATG	GTATCACACA	AGACCATGAC	AGTGTCTATC	AAGCTTTAAA	GGTTTCTACT	7080
CCTTTTGCGA	TTGAGACATT	CGCTCCCAAT	TTAGAGAATT	TTTTAGAAAA	GTACAAGGAA	7140
AATGAAGCCA	GAGAGCTTGA	ACACCCGATT	TTATTTGAAG	GAGTTTCTGA	CCTATTGGAA	7200
GACATTTCAA	ATCAAGGTGG	CCGTCATTTT	TTGGTCTCTC	ATCGAAATGA	TCAGGTTTTG	7260
GAAATTTTAG	AAAAAACCTC	TATAGCAGCT	TATTTTACAG	AAGTGGTGAC	TTCTAGCTCA	7320
GGCTTTAAGA	GAAAGCCAAA	TCCCGAATCC	ATGCTTTATT	TAAGAGAAAA	GTATCAGATT	7380
AGCTCTGGTC	TTGTCATTGG	TGATCGGCCG	ATTGATATCG	AAGCAGGTCA	AGCTGCAGGA	7440
CTTGATACCC	ACTTGTTTAC	CAGTATCGTG	AATTTAAGAC	AAGTATTAGA	CATATAAGAA	7500
AAAGGAATAA	GATGACAGAA	GAAATCAAAA	ATCTGCAGGC	ACAGGATTAT	GATGCCAGTC	7560
AAATTCAAGT	TTTAGAGGGC	TTAGAGGCTG	TTCGTATGCG	TCCAGGGATG	TACATTGGAT	7620
CAACCTCAAA	AGAAGGTCTT	CACCATCTAG	TCTGGGAAAT	TGTTGATAAC	TCAATTGACG	7680
AGGCCTTGGC	AGGATTTGCC	AGCCATATTC	AAGTTTTTAT	TGAGCCAGAT	GATTCGATTA	7740
CTGTTGTGGA	TGATGGGCGT	GGTATCCCAG	TCGATATTCA	GGAAAAAACA	GGCCGTCCTG	7800

			1048			
CTGTTGAGAC	CGTCTTTACA	GTCCTTCACG	CTGGAGGAAA	GTTCGGCGGT	GGTGGATACA	7860
AGGTTTCAGG	TGGTCTTCAC	GGGGTGGGGT	CGTCAGTAGT	TAATGCCCTT	TCCACTCAAT	7920
PAGACGTTCA	TGTTCACAAA	AATGGTAAGA	TTCATTACCA	AGAATACCGT	CGTGGTCATG	7980
PTGTCGCAGA	TCTTGAAATA	GTTGGAGATA	CGGATAAAAC	AGGAACAACT	GTTCACTTCA	8040
CACCGGACCC	AAAAATCTTC	ACTGAAACAA	CAATCTTTGA	TTTTGATAAA	TTAAATAAAC	8100
GGATTCAAGA	GTTGGCCTTT	CTAAATCGCG	GTCTTCAAAT	TTCAATTACA	GATAAGCGCC	8160
AAGGTTTGGA	ACAAACCAAG	CATTATCATT	ATGAAGGTGG	GATTGCTAGT	TACGTTGAAT	8220
ATATCAACGA	GAACAAGGAT	GTAATCTTTG	ATACACCAAT	CTATACAGAC	GGTGAGATGG	8280
ATGATATCAC	AGTTGAGGTA	GCCATGCAGT	ACACAACTGG	TTACCATGAA	AATGTCATGA	8340
GTTTCGCCAA	TAATATTCAT	ACCCATGAAG	GTGGAACACA	TGAACAAGGT	TTCCGTACAG	8400
CCTTGACACG	TGTTATCAAC	GATTATGCTC	GTAAAAATAA	GTTACTGAAA	GACAATGAAG	8460
ЧТААТТТААС	AGGGGAAGAT	GTTCGCGAAG	GCTTAACTGC	AGTTATCTCA	GTTAAACACC	8520
CAAATCCACA	GTTTGAAGGA	CAAACCAAGA	CCAAATTGGG	AAATAGCGAA	GTGGTCAAGA	8580
TACCAATCG	CCTCTTCAGT	GAAGCTTTCT	CCGATTTCCT	CATGGAAAAT	CCACAGATTG	8640
CCAAACGTAT	CGTAGAAAAA	GGAATTTTGG	CTGCCÄAGGC	TCGTGTGGCT	GCCAAGCGTG	8700
CGCGTGAAGT	CACACGTAAA	AAATCTGGTT	TGGAAATTTC	CAACCTTCCA	GGGAAACTAG	8760
CAGACTGTTC	TTCTAATAAC	CCTGCTGAAA	CAGAACTCTT	CATCGTCGAA	GGAGACTCAG	8820
TGGTGGATC	AGCCAAATCT	GGTCGTAACC	GTGAGTTTCA	GGCTATCCTT	CCAATTCGCG	8880
TAAGATTTT	GAACGTTGAA	AAAGCAAGTA	TGGATAAGAT	TCTAGCCAAC	GAAGAAATTC	8940
STAGTCTTTT	CACAGCCATG	GGAACAGGAT	TTGGCGCAGA	ATTTGATGTT	TCGAAAGCCC	9000
STTACCAAAA	ACTCGTTTTG	ATGACCGATG	CCGATGTCGA	TGGAGCCCAC	ATTCGTACCC	9060
PTCTTTTAAC	CTTGATTTAT	CGTTATATGA	AACCAATCCT	AGAAGCTGGT	TATGTTTATA	9120
PTGCCCAACC	ACCAATCTAT	GGTGTCAAGG	TTGGAAGCGA	GATTAAAGAA	TATATCCAGC	9180
GGGTGCAGA	TCAAGAAATC	AAACTCCAAG	AAGCTTTAGC	CCGTTATAGT	GAAGGTCGTA	9240
CAAACCGAC	TATTCAGCGT	TATAAGGGGC	TAGGTGAAAT	GGACGATCAT	CAGCTGTGGG	9300
AACAACCAT	GGATCCCGAA	CATCGCTTGA	TGGCTAGAGT	TTCTGTAGAT	GATGTGCAGA	9360
AGCAGATAAA	ATCTTTGATA	TGTTGATGGG	GATCGAGTTG	TCCTCGTCG		9409

(2) INFORMATION FOR SEQ ID NO: 162:

⁽i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 6415 base pairs
(B) TYPE: nucleic acid

1049

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 162:

CCTGGGAAAG	TCTTGAAAAT	TATGATAGAA	TGGTGGAAGG	AAAAATTCAG	GAGAGTAGTA	60
GTGACTCAAA	atgttgaaag	TCTTCTCGTA	TCCATTGTAA	TCAGTGCATA	CAATGAAGAA	120
AAATATCTGC	CTGGTCTAAT	TGAAGACTTA	АААААТСААА	CCTATCCTAA	AGAGGATATT	180
GAAATTCTAT	TTATAAATGC	TATGTCCACA	GATGGGACCA	CAGCTATCAT	TCAGCAATTT	240
ATAAAGGAAG	ATACAGAGTT	TAACTCAATT	AGATTGTATA	ACAATCCTAA	GAAAAATCAA	300
GCTAGTGGTT	TTAACCTGGG	AGTTAAACAT	TCTGTAGGGG	ACCTTATTTT	AAAAATTGAT	360
GCTCATTCAA	AAGTTACTGA	GACTTTTGTA	ATGAACAATG	TGGCTATTAT	TCAACAAGGT	420
GAATTTGTCT	GTGGGGGCC	TAGACCGACG	ATTGTCGAAG	GAAAAGGAAA	ATGGGCAGAG	480
ACCTTGCATC	TTGTTGAGGA	AAATATGTTT	GGCAGTAGCA	TTGCCAATTA	TCGAAATAGT	540
TCTGAGGATA	GATATGTTTC	TTCTATTTT	CATGGAATGT	ATAAACGAGA	GGTTTTCCAG	600
AAGGTTGGTT	TAGTAAATGA	GCAACTTGGC	CGAACTGAAG	ATAATGATAT	TCATTATAGA	660
ATTCGAGAAT	ATGGTTATAA	AATCCGCTAT	AGCCCAAGTA	ТТСТАТСТТА	TCAGTATATT	720
CGACCAACAT	TCAAGAAAAT	GCTGCATCAA	AAGTATTCAA	ATGGTTTGTG	GATTGGCTTG	780
ACAAGTCATG	TTCAGTTTAA	GTGTTTATCA	TTATTTCACT	ATGTTCCTTG	TTTATITGTT	840
TTGAGTCTTG	TGTTTAGTCT	AGCATTGTTA	CCGATCACAT	TCGTATTCAT	AACTTTACTA	900
TTAGGTGCCT	ATTTTCTACT	TTTGTCATTA	CTCACTTTGC	TGACTTTATT	ААААСАТААА	960
AATGGATTTC	TAATTGTGAT	GCCCTTTATT	TTATTTTCCA	TTCACTTTGC	TTATGGCCTT	1020
GGGACGATTG	TAGGTTTAAT	TAGAGGATTT	AAATGGAAGA	AGGAGTACAA	GAGAACAATA	1080
ATTTATTTGG	ATAAAATAAG	ССАААТАААТ	CAAAATATGC	ТАТААТААСА	ATATAGTAAA	1140
ACTCTTTTAA	GGAGGAGTAG	ATTTCTATGA	ATAAAAAACT	AACAGATTAT	GTGATTGATC	1200
TGGTGGAAAT	TTTAAATAAA	CAACAAAAGC	AGGTTTTCTG	GGGAATATTT	GATATTTTCA	1260
GTATGGTGGT	TTCCATCATT	GTATCTTATA	TTTTATTTTA	TGGGCTGATT	AATCCAGCAC	1320
CTGTTGACTA	CATTATCTAT	ACGAGTTTGG	CCTTCCTGTT	CTATCAATTG	ATGATTGGTT	1380
TTTGGGGGTT	GAACGCGAGC	ATTAGTCGTT	ACAGCAAGAT	TACGGATTTC	ATGAAAATCT	1440
TTTTTGGTGT	GACTGCTAGC	AGTGTCTTGT	CATATAGTAT	CTGTTATGCC	TTCTTGCCAC	1500
TCTTCTCCAT	CCGTTTCATC	ATTCTCTTTA	TCTTGTTGAG	TACCTTCTTG	ATTTTATTGC	1560

CACCCATTAC	mmccca cmma	NECTA CECCA	1050	100m10m00m	010001011	
		ATCTACTCCA				1620
ACCGTCGGAC	CTTCTTGATT	GGTGCCGGTG	ATGGTGGGGC	TCTTTTTATG	GATAGTTACC	1680
AACATCCAAC	CAGTGAATTA	GAACTGGTCG	GTATTTTGGA	TAAGGATTCT	AAGAAAAAGG	1740
GTCAAAAACT	TGGTGGTATT	CCTGTTTTGG	GCTCTTATGA	CAATCTGCCT	GAATTAGCCA	1800
AACGCCATCA	AATCGAGCGT	GTCATCGTTG	CGATTCCGTC	GCTGGATCCG	TCAGAATATG	1860
AGCGTATCTT	GCAGATGTGT	AATAAGCTGG	GTGTCAAATG	TTACAAGATG	CCTAAGGTTG	1920
AAACTGTTGT	TCAGGGCCTT	CACCAAGCAG	GTACTGGCTT	CCAAAAAATT	GATATTACGG	1980
ACCTTTTGGG	TCGTCAGGAA	ATCCGTCTTG	ACGAATCGCG	TCTGGGTGCA	GAACTGACAG	2040
GTAAGACCAT	CTTAGTCACA	GGAGCTGGAG	GTTCAATCGG	TTCTGAAATC	TGTCGTCAAG	2100
TTAGTCGCTT	CAATCCTGAA	CGCATTGTCT	TGCTCGGTCA	TGGGGAAAAC	TCAATCTACC	2160
TTGTTTATCA	TGAATTGATT	CGTAAGTTCC	AAGGGATTGA	TTATGTACCT	GTGATTGCGG	2220
ACATTCAAGA	CTATGATCGT	TTGTTGCAAG	TCTTTGAGCA	GTACAAACCT	GCTATTGTTT	2280
ATCATGCGGC	AGCCCACAAG	CATGTTCCTA	TGATGGAGCG	CAATCCAAAA	GAAGCCTTCA	2340
AAAACAATAT	CCGTGGAACT	TACAATGTTG	CTAAGGCTGT	TGATGAAGCT	AAAGTGTCTA	2400
AGATGGTTAT	GATTTCGACA	GATAAGGCAG	TCAATCCACC	AAATGTTATG	GGAGCAACCA	2460
AGCGCGTGGC	GGAGTTGATT	GTCACTGGCT	TTAACCAACG	TAGCCAATCA	ACCTACTGTG	2520
CAGTTCGTTT	TGGGAATGTT	CTTGGTAGCC	GTGGTAGTGT	CATTCCAGTC	TTTGAACGTC	2580
AGATTGCTGA	AGGTGGGCCT	GTAACGGTGA	CAGACTTCCG	TATGACCCGT	TACTTTATGA	2640
CCATTCCAGA	AGCTAGCCGT	CTGGTTATCC	ATGCTGGTGC	TTATGCCAAA	GATGGGGAAG	2700
TCTTTATCCT	TGATATGGGC	AAACCAGTCA	AGATTTATGA	CTTGGCCAAG	AAGATGGTGC	2760
TTCTAAGTGG	CCACACTGAA	AGTGAAATTC	CAATCGTTGA	AGTTGGAATC	CGCCCAGGTG	2820
AAAAACTCTA	CGAAGAACTC	TTGGTATCAA	CCGAACTCGT	TGATAATCAA	GTTATGGATA	2880
AGATTTTCGT	TGGTAAGGTT	AATGTCATGC	CTTTAGAATC	CATCAATCAA	AAGATTGGAG	2940
AGTTCCGCAC	TCTCAGTGGA	GATGAGTTGA	AGCAAGCTAT	TATCGCCTTT	GCTAATCAAA	3000
CAACCCACAT	TGAATAAAA	AGAAAAACGC	ATAGTATCAA	GTTACACAAC	CTTGGTAATA	3060
TGCGTTTTAT	TATGTAGAGA	CTTATACTCT	TCGAAAATCT	CTTCAAACCA	CGTCAACGTC	3120
GCCTTGCCGT	ATATGGTTAC	TGACTLCGTC	AGTTCTATCC	ACAACCTCAA	AACAGTGTTT	3180
TGAGytGACT	TCGTCAGTTC	TATCCACAAC	CTCAAAACAG	TGTTTTGAGc	TGACtTCGTC	3240
AGTTCTATCC	ACAACCTCAA	AACAGTGTTT	TGAGCTGACT	TCGTCAGTTC	CATCCACAAC	3300
CTTAAAACAG	TGTTTTGAGy	TGACnTTCGT	CAGTTCCATC	TACAACCTTA	AAACAGTGTT	3360

•	PTGAGCTGCC	CGCAGCTAGT	TTCCTAGTTT	GCTCTTTGAT	TTTCATTGAG	TATTACTTCA	3420
•	PTTTCTTCTG	AAATGGAATT	GTTACCCAGT	CTATGCTATT	GAAAATACGC	CAAAACTTCT	3480
1	AAGGGTTTGT	GAGCGATATA	ATCAGGTTGA	TAGTTTAGTA	GATCTGCTTG	CTCTCCAAAT	3540
•	CCCCAAGTGA	TGGCCAATTT	CTGAATACCT	GTTTCTCGAG.	CTCCCAGCAT	ATCAAACTTG	3600
(GTATCTCCGA	TGATGATGGC	TTGTTCTGGT	GCTAGTTGAT	GTGTCTGCAA	GGCTTGGTGA	3660
2	ATGACATCTG	CCTTATGGGG	TGCTTCAGGG	CTAGAACCAT	AAATGCCATC	AAAGAAATGA	3720
•	rggatttcca	AGTTTTTTGC	CATGTCTTGA	GCAGTAGATG	TATCCTTTGT	CGTGGTGATG	3780
•	ragagtggat	AACTGCTCGA	TAACTCCTCA	AGCAAGTCTA	TAATCTGAGG	AAAGAGTTGA	3840
(SCTTCATAGA	TGCCTTTTGC	CTTATAGTAA	GAACGATATA	TCTGCACGGC	TTCAGAAATT	3900
5	rggtctttgg	ACAGGCAGGT	CGCAAAACTA	CTTTCGAGAG	GTGGTCCCAT	AAAACCACGA	3960
7	ATAGTTTTĞG	CATCAGGGCT	AGGCACCCC	AGCTCTTTAA	AGGTATAGGT	AAAGGCATTG	4020
2	rgaatcccga	TAGAACTATC	AACGAGGGTT	CCATCCAAAT	ССАААААААТ	CGCTGTGATA	4080
(GAGGTCATGG	TTTCTCCTAT	TTGATAAGCT	TATTCTCCGA	AAATTTCTTT	TTGGAGGCGA	4140
(CGACCAGTAG	GGGTGGTAGC	GAGTCCACCT	TCAGCTGTTT	CACGAAAGGC	AGTTGGCATG	4200
(CTTGCTCCTA	CTTGGTACAT	GGCATCGATC	ACTTCATCCA	CAGGGATTTT	AGATTCGATA	4260
C	CTGCCAAGG	CCATGTCTGC	TGCGATGAAA	GCAAAGCTAG	CTCCCATGGC	ATTACGTTTG	4320
,	ACACAGGGAA	CTTCGACCAA	ACCTGCAACA	GGGTCACAGA	TGAGGCCTAG	CATATTTTTA	4380
2	ATGACAAAGG	CAATAGCTTG	ACTGGCCTGA	TAAGGTGTTC	CACCTGCAGC	CAGAGTCAAG	4440
c	GCGGCAGCAC	TCATAGCAGA	GGCTGAACCA	ACTTCAGCTT	GACACCCACC	CTCAGCACCT	4500
(SAGATGGAGG	CATTGTTTGC	GATGACTAGT	CCAAAGGCAC	CAGCAGCAAA	GAGGAAATCC	4560
,	ATTGTTGCT	CGTGGCTGAG	GTCTAATTTT	TCAATAGCAG	CAGTGAGAAC	GGATGGCAGA	4620
(CAGCCAGCAC	TTCCAGCGGT	TGGAGTGGCA	CAGACCAAGC	CCATTTTGGC	ATTGTGTTCA	4680
7	TGACTGCGA	TGGCATTTCG	GGCAGCCGAG	AGAATCGTAT	AATCTGACAG	AGTTTTTCCG	4740
7	TTTCGATGT	AGTGATCCAA	TTTGGCAGCA	TCTCCACCTG	TCAGGCCACT	ACGAGATTTA	4800
7	TTTCATTGA	GGCCAAGTTG	GACAGAGGCT	TTCATAACTT	CCAGATTGCG	TTCCATGAGA	4860
7	AGGAAGACTT	CTTCACGTTC	GCGACCGGTC	AATTCAAACT	CTGTTGTAAT	CATGAGTTCT	4920
¢	CGACATTTC	CTTGAAAGTC	CAGATCTGCT	TGCTCGACCA	ATTCTTTGAT	AGAATAAAAC	4980
F	TGCTTCCTC	CTATTTAAAG	AAATTGACAT	TGTGGAGATG	AGGGATTTTT	CGAATTTCTT	5040
c	GATAGCCTC	ATCACAGTTG	CGACTGTCAA	CTTCGATAAT	CATAATGGCT	TTTTCACCAG	5100

CTTTTTCACG	AGTGACATTC	ATCTGGGCGA	1052 TATTGATACC	ATAGCGGGAA	AGCGCCTCTG	5160
TAACAAGGGC	AATCATACCT	GGAATATCTT	GATGAACGAT	GATGATAGTC	GGTGTATTCA	5220
TATTGAGAGA	GACGGCAAAA	CCATTGAGTT	CGGTTACCTG	AATATTTCCT	CCACCGATAG	5280
AAATACCAGT	CACGCTGATG	GTCTTGTGGG	CATTTTTAAC	AGTAATTTTA	GTGGTGTTAG	5340
GGTGAGGGGC	ATTGCTGTCT	TTCTGAATGG	TCCAGACAAT	CTTGATACCA	CCCTTCTGGG	5400
CAATTTCCAG	ACTATTTGGA	ATTTCAGGAT	CATCTGTATC	САТТССТААА	ATACCTGCAA	5460
CAAGGGCTAG	GTCTGTTCCG	TGACCACGAT	AGGTCTTGGC	AAATGAGTTA	AAAAGTTGGA	5520
ATTCAACTTC	TGTCGGAGTA	TCATCAAAAA	TGGAAGAGAC	AATCTTCCCA	ATACGAACAG	5580
CACCAGCGGT	ATGGCTACTA	GATGGGCCAA	TCATAACTGG	TCCGATGATA	TCAAAGACAG	5640
ATTGAAAACG	AAGTGATTTC	ATCAGTTTCC	ССТТАТАААА	ATTCTTATCT	CTATTATATC	5700
aaagaatgag	GGGCTTGGCT	TTAATTGTGG	ATGAAAACCT	TTCTAATACC	TCAAATAGCA	5760
талалатаст	ATCTTTTATG	ACAAAAAACA	CCTTATTTAG	GGAAATAAAA	AATAATTTTG	5820
TAATATTTCT	ACATAAAAGT	GTCAAGAAAC	GGTAATATTT	AAAGGGTATG	ATAGAACTAT	5880
AGAAAGAAGG	AGAATTTTCG	AATATGAAAT	CAATAACTAA	AAAGATTAAA	GCAACTCTTG	5940
CAGGAGTAGC	TGCCTTGTTT	GCAGTATTTG	CTCCATCATT	TGTATCTGCT	CAAGAATCAT	6000
CAACTTACAC	TGTTAAAGAA	GGTGATACAC	TTTCAGAAAT	CGCTGAAACT	CACAACACAA	6060
Cagttgaaaa	ATTGGCAGAA	AACAACCACA	TTGATAACAT	TCATTTGATT	TATGTTGATC	6120
aagagttggt	TATCGATGGC	CCTGTAGCGC	CTGTTGCAAC	ACCAGCGCCA	GCTACTTATG	6180
CGGCACCAGC	CGCTCAAGAT	GAAACTGTTT	CAGCTCCAGT	AGCAGAAACT	CCAGTAGTAA	6240
GTGAAACAGT	TGTTTCAACT	GTAAGCGGAT	CTGAAGCAGA	AGCCAAAGAA	TGGATCGCTC	6300
AAAAAGAATC	AGGTGGTAGT	ATACAGCTAC	AAATGGACGT	TATATCGGAC	GTTACCAATT	6360
AACAGATTCA	TACCTGAACG	GTGACTACTC	AGCTGAAAAC	CAAGAACGGG	TACCG	6415
(2) INFORM	ATION FOR SE	EQ ID NO: 16	53:		•	

- (i) SEQUENCE CHARACTERISTICS:

 - (A) LENGTH: 8494 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 163:

TACCCCTTTC GAATTTTGGC AAAAATTCGG TAAGGCTTTG ATGGTAGTTA TCGCGGTTAT 60 GCCGGCTGCT GGTTTGATGA TTTCAATCGG TAAGTCTATC GTGATGATTA ACCCAACCTT 120

TG(CACCACTT	GTCATCACAG	GTGGAATTCT	TGAGCAAATC	GGTTGGGGG	TTATCGGTAA	180
CC:	TTCACATT	TTGTTTGCCC	TAGCCATTGG	AGGAAGCTGG	GCTAAAGAAC	GTGCTGGTGG	240
TG	TTTCGCC	GCTGGTCTTG	CCTTCATCTT	GATTAACCGT	ATCACTGGTA	CAATCTTTGG	300
TG?	PATCAGGC	GATATGTTGA	AAAATCCAGA	TGCTATGGTA	ACTACTTTCT	TTGGTGGTTC	360
AA?	rcaaagtt	GCTGATTACT	TTATCAGTGT	TCTTGAAGCT	CCAGCCTTGA	ACATGGGGGT	420
AT?	PCGTAGGG	ATTATCTCAG	GTTTTGTAGG	GGCAACTGCT	TACAACAAAT	ACTACAACTT	480
cco	STAAACTT	CCTGATGCAC	TTTCATTCTT	CAACGGGAAA	CGTTTCGTAC	CATTTGTAGT	540
TA?	r tcttc gt	TCAGCAATCG	CTGCAATTCT	ACTTGCTGCT	TTCTGGCCAG	TAGTTCAAAC	600
AGO	STATCAAT	AACTTCGGTA	TCTGGATTGC	CAACTCACAA	GAAACTGCTC	CAATTCTTGC	660
ACC	CATTCTTG	TATGGTACTT	TGGAACGTTT	GCTCTTGCCA	TTTGGTCTTC	ACCACATGTT	720
GAC	CTATCCCA	ATGAACTACA	CAGCTCTTGG	TGGTACTTAT	GACATTTTAA	CTGGTGCAGC	780
TAZ	AGGTACT	CAAGTATTCG	GTCAAGACCC	ACTATGGCTT	GCATGGGTAA	CAGACCTTGT	840
A.A.	CCTTAAA	GGTACTGATG	CTAGTCAATA	TCAACACTTG	TTAGATACAG	TACATCCAGC	900
rcc	TTTCAAA	GTTGGACAAA	TGATCGGTTC	ATTCGGTATC	TTGATGGGTG	TGATTGTTGC	960
rat	CTACCGT	AATGTTGATG	CTGACAAGAA	ACATAAATAC	AAAGGTATGA	TGATTGCAAC	1020
AGC	TCTTGCA	ACATTCTTGA	CAGGGGTTAC	TGAACCAATC	GAATACATGT	TCATGTTCAT	1080
CGC	CAACACCT	ATGTATCTTG	TTTACTCACT	TGTTCAAGGT	GCTGCCTTCG	CTATGGCTGA	1140
CGT	CGTAAAC	CTACGTATGC	ACTCATTCGG	TTCAATCGAG	TTCTTGACTC	GTACACCTAT	1200
rgc	CAATCAGT	GCTGGTATTG	GTATGGATAT	CGTTAACTTC	GTTTGGGTAA	CTGTTCTCTT	1260
rgc	TGTAATC	ATGTACTTTA	TCGCAAACTT	CATGATTCAA	AAATTCAACT	ACGCAACTCC	1320
AGC	GCGCAAC	GGAAACTACG	AAACTGCTGA	AGGTTCAGAA	GAAACCAGCA	GCGAAGTGAA	1380
AGT	TGCAGCA	GGCTCTCAAG	CTGTAAACAT	TATCAACCTT	CTTGGTGGAC	GTĠTAAACAT	1440
CGI	TGATGTT	GATGCATGTA	TGACTCGTCT	TCGTGTAACT	GTTAAAGATG	CAGATAAAGT	1500
AGG	BAAATGCA	GAGCAATGGA	AAGCAGAAGG	AGCTATGGGT	CTTGTCATGA	AAGGACAAGG	1560
3G7	TCAAGCT	ATCTACGGTC	CAAAAGCTGA	CATTTTGAAA	TCTGATATCC	AAGATATCCT	1620
rga	TTCAGGT	GAAATCATTC	CTGAAACTCT	TCCAAGCCAA	ATGACTGAAG	CACAACAAAA	1680
CAC	TGTTCAc	TTCAAAGATC	TTACTGAGGA	AGTTTACTCA	GTAGCAGACG	GTCAAGTTGT	1740
rgc	TTTGGAA	CAAGTAAAGG	ATCCAGTATT	TGCTCAAAAA	ATGATGGGTG	ATGGATTTGC	1800
C	יישיים מבו מיי	CCAAAMCCAA	a Cammemano	MCC3 CMMMC3	CCM3 CMCMCM	CAACCAMORM	1000

1054 CCCAACAAAA CATGCTTTTG GTATTGTGAC GGAAGCAGGT CTTGAAGTAT TGGTTCACAT 1920 TGGTTTGGAC ACAGTAAGTC TTGAAGGTAA ACCATTTACA GTTCATGTTG CTGAAGGACA 1980 AAAAGTTGCA GCAGGAGATC TCCTTGTCAC AGCTGACTTG GATGCTATCC GTGCAGCAGG 2040 ACGTGAAACT TCAACAGTAG TTGTCTTCAC AAATGGTGAT GCAATTAAAT CAGTTAAGTT 2100 AGAAAAAACA GGTTCTCTTG CAGCTAAAAC AGCAGTTGCT AAAGTAGAAT TGTAATATAC 2160 TTGAGGTTGG AAGCTGTATT CCAACCTCTT ATTTTGGGAG AAAAGAATGA AATTTTTAAC 2220 ACTCAATACT CACAGTTGGA TGGAGAAAGA AGCAGAGGAA AAATTCCAGA TTTTGCTTGA 2280 AGATATTCTT. GAAAAGGACT ATGATTTGAT TTGTTTTCAA GAAATCAATC AGGAGATGAC 2340 CTCGTCAGAG GTGGAGGTTA ATGACCTTTA TCAAGCTTTG CCAGCAGCTG AGCCTATTCA 2400 CCAAGACCAT TATGTTAGAC TCTTGGTTGA AAAGTTGTCT GAGCAAGGGA AAAATTACTA 2460 CTGGACCTGG GCCTATAACC ATATCGGCTA TAACCGCTAC CACGAAGGTG TGGCTATCTT 2520 GTCTAAAACA CCTATTGAAG CCAGAGAAAT TTTGGTTTCA GATGTGGATG ATCCAACAGA 2580 CTATCATACT CGCCGTGTTG CCCTAGCTGA AACTGTAGTC GATGGCAAGG AGCTAGCAGT 2640 TGCCAGTGTT CATCTCTCTT GGTGGGATAA AGGTTTCCAA GAAGAATGGG CACGATTTGA 2700 GGCTGTCTTG AAAAAATTGA ACAAGCCACT TTTACTAGCT GGAGATTTCA ACAATCCGGC 2760 TGGACAGGAA GGTTACCAAG CTATTTTAGC TAGTCCATTA GGCTTACAAG ACGCATTTGA 2820 AGTTGCTCAA GAGAAAAGTG GTAGCTATAC TGTTCCGCCT GAAATTGATG GCTGGAAAGG 2880 GAACACTGAA CCCCTTCGAA TCGATTATGT CTTTACTACC AAAGAGTTAG CGGTGGAAAA 2940 TTTACATGTC GTATTTGATG GTAACAAGAG TCCACAAGTG AGTGATCACT ATGGCTTGAA 3000 TGCTATATTA AACTGGAAAT AATAACTGAA AAGAGGTTGG AACTATAAAA TTCCAGCCTT 3060 TTCTTACTAG AGAAGCTACT GGAAATAGCC TAAATAAGTG AGACTACTGT AATGGAATAA 3120 AATATGGTAT AATTGATAAG GTAGATAGAA TCGAGGATGT TATGTCATTT ACGAAATTTC 3180 AATTTAAAAA CTATATTAGA GAAGCCTTGA AGGAGTTAAA ATTTACAACT CCAACAGAGG 3240 TGCAAGACAA GTTGATTCCT ATTGTTTTGG CAGGTCGTGA CCTAGTAGGA GAATCAAAAA 3300 CAGGTTCAGG TAAGACTCAT ACTTTCTTGT TACCGATTTT CCAGCAATTA GATGAAGCTA 3360 GCGATAGTGT ACAAGCAGTG ATTACTGCAC CGAGTCGTGA GTTGGCTACT CAAATTTACC 3420 AAGTAGCGCG TCAGATTTCA GCTCACTCAG ATGTCGAAGT TCGTGTGGTT AATTATGTGG 3480 GTGGTACGGA TAAGGCTCGC CAGATTGAGA AATTGGCAAG CAATCAGCCT CATATTGTTA 3540 TTGGAACACC AGGCCGTATC TACGACTTGG TTAAATCTGG TGATTTAGCT ATTCATAAAG 3600 CCAAGACATT TGTTGTTGAT GAAGCAGATA TGACCTTGGA TATGGGATTC TTGGAAACTG 3660

TTGATAAGAT	TGCTGGCAGT	CTTCCAAAAG	ACTTGCAATT	CATGGTCTTC	TCAGCGACTA	3720
TCCCACAAAA	ACTGCAACCA	TTCTTGAAAA	AATACTTATC	AAATCCTGTT	ATGGAGAAAA	3780
TTAAGACCAA	AACGGTTATT	TCTGACACCA	TTGATAATTG	GTTGATTTCG	ACCAAGGGAC	3840
ATGATAAGAA	TGCTCAAATT	TACCAGTTGA	CTCAGTTGAT	GCAGCCGTAT	TTGGCAATGA	3900
TTTTTGTTAA	CACTAAAACG	CGTGCTGATG	AATTGCATTC	ATATCTGACT	GCTCAAGGCT	3960
TGAAGGTTGC	AAAAATCCAT	GGCGATATTG	CCCCTCGTGA	ACGCAAGCGA	ATCATGAATC	4020
AGGTGCAAAA	TCTGGATTTT	GAGTATATTG	TCGCAACAGA	TTTGGCAGCG	CGTGGGATTG	4080
ACATTGAAGG	TGTCAGCCAT	GTCATCAATG	ATGCCATTCC	GCAAGACTTA	TCTTTTTTTG	4140
TTCATCGTGT	TGGTCGTACT	GGACGÁAATG	GCCTACCAGG	TACAGCTATT	ACCCTTTATC	4200
AGCCAAGTGA	TGACTCGGAT	ATCCGTGAGT	TGGAGAAATT	GGGAATCAAG	TTTAGTCCTA	4260
AGATGGTCAA	AGACGGGGAA	TTTCAAGATA	CCTATGACCG	TGATCGTCGT	GCCAACCGTG	4320
AGAAAAAACA	AGATAAACTT	GATATCGAAA	TGATTGGTTT	GGTTAAAAAG	AAAAAGAAAA	4380
AAGTCAAACC	GGGTTATAAG	AAGAAAATTC	AATGGGCGGT	TGATGAAAAG	CGCCGTAAAA	4440
CCAAGCGTGC	TGAAAATCGC	GCTCGCGGTC	GTGCAGAGCG	TAAAGCTAAA	CGCCAAACAT	4500
TTTAATAGAA	ATTGTTGGAG	TATTGAGCTC	CAACTTTTTT	ATTTATGAGA	ACGAACTATC	4560
TAAACCGAAA	CACTACATTA	AAGACTGCAA	ATTGCGATTA	AAAATGGTAT	AATGATAAAG	4620
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GTAACTCTAT	AACAATATTT	TTTAAGGGGG	GACATTTTTA	TGTCAGAGCG	TAAATTATTC	4740
ACGTCTGAAT	CTGTATCTGA	GGGGCATCCG	GATAAGATTG	CAGACCAAAT	TTCAGATGCG	4800
ATTTTGGATG	CTATTTTAGC	AAAGGATCCA	GAGGCGCACG	TTGCTGCTGA	AACAGCTGTA	4860
TATACTGGTT	CTGTCCACGT	TTTTGGTGAA	ATTTCTACAA	ATGCCTATGT	GGATATTAAC	4920
CGTGTGGTTC	GTGATACCAT	TGCAGAGATT	GGTTATACCA	ATACAGAATA	TGGATTTTCT	4980
GCTGAGACGG	TGGGAGTACA	CCCATCTTTG	GTGGAACAAT	CTCCTGACAT	CGCTCAAGGT	5040
GTTAACGAAG	CCTTGGAGGT	TCGTGGAAAT	GCTGATCAAG	ATCCACTGGA	CTTGATTGGA	- 5100
GCAGGTGACC	AAGGGCTCAT	GTTTGGATTT	GCAGTAGATG	AAACAGAAGA	GCTTATGCCA	5160
TTGCCAATTG	CACTCAGTCA	TAAATTGGTT	CGTCGTCTGG	CAGAACTTCG	TAAGTCTGGA	5220
GAAATTAGCT	ATCTCCGTCC	AGATGCAAAA	TCACAAGTTA	CAGTTGAGTA	CGATGAAAAT	5280
GACCGTCCGG	TACGTGTAGA	TACAGTCGTT	ATTTCTACTC	AGCATGATCC	AGAGGCCACT	5340
AATGAACAAA	TCCATCAAGA	TGTGATTGAC	AAGGTCATCA	AAGAAGTTAT	TCCATCTTCT	5400

1056 TATCTTGATG ATAAGACAAA ATTCTTTATC AATCCGACAG GTCGTTTTGT AATCGGTGGT 5460 CCTCAAGGGG ACTCAGGTTT GACTGGTCGT AAGATTATTG TAGATACTTA TGGTGGCTAC 5520 TCTCGTCATG GTGGTGGTGC CTTCTCTGGT AAAGATGCGA CTAAGGTGGA TCGTTCAGCC 5580 TCTTATGCGG CTCGCTATAT TGCCAAGAAT ATCGTTGCAG CAGACCTTGC TAAGAAGGCA 5640 GAAGTGCAGT TGGCCTATGC TATCGGTGTT GCGCAACCTG TTTCTGTTCG TATCGATACT 5700 TTCGGTACAG GAACAGTAGC TGAAAGTCAA CTTGAAAAAG CGGCTCGTCA AATCTTTGAC 5760 CTTCGCCCTG CAGGGATTAT CCAAATGCTG GACCTCAAGC GTCCAATTTA CCGTCAAACA 5820 TCGGCTTACG GTCACATGGG ACGTACAGAT ATTGATCTTC CATGGGAACG TTTGGATAAG 5880 GTAGATGCTT TGAAAGAAGC AGTAAAATAA GATTTTAAGA GGGGAACGTC CTCTCTTTTT 5940 TATAGTTTTT AACTATACTG GGATACTGTT CTGAAAATCC ATTTTGCGAA AGTAGAGATT 6000 TACATGTATA GTAGATTGAA ACTAGAATAG TACACCTCAA CTTCTAAAAC ATTGTTAGCA 6060 ATCAATTGA CTGTCCTGAT CGATTTCTCC TGTTCTTGTT TCATTTTACT ATATTTCTTT 6120 AAAAATGATA AAGGTTAAGA TTTCTCCTCG TAATAGATAA TCTTGGGGAT ATTTCAATCC 6180 AAAGTTTTAT TCGTTATCAC TTGACTATTG CAAGGTTTTC TAGAGCAACA GAGTCATGGA 6240 ATGGACTCAT GGTTGAGATT TCTCCTTGTT GCTTGGACTT CATTCAAAAG TCTGTTACCC 6300 AAGCCTTGTT CAAACTTCTA ATACACTAGC TGTTTCCATA GCATGACTTC TGTACTAGAC 6360 TTTCTTTTCC GAATAAATAG ATAGAACCAC AGAATCTAGT AAACCTAGAA TTAAAATTAT 6420 GGTATAATAT TAGCAATAAA AGAAATCTGG AGGATTAGAA TCATGGTATC AACGAAAACA 6480 CAAATTGCTG GTTTTGAGTT TGACAATTGC TTGATGAATG CAGCAGGTGT GGCTTGTATG 6540 ACGATAGAGG AGTTAGAAGA GGTCAAAAAC TCAGCGGCAG GAACCTTTGT TACTAAGACA 6600 GCGACCTTGG ACTTCCGTCA GGGGAATCCT GAGCCACGCT ACCAGATGT TCCACTTGGT 6660 TCCATCAACT CTATGGGCTT GCCAAATAAT GGCTTAGACT ATTATTTGGA TTATCTTTTA 6720 GATTTGCAGG AAAAAGAGTC GAACCGAACT TTCTTCTTAT CTCTGGTCGG CATGTCTCCA 6780 GAGGAAACCC ATACTATTTT GAAAAAAGTC CAAGAGAGTG ATTTTCGTGG TCTGACTGAG 6840 CTAAATCTTT CCTGTCCAAA TGTTCCAGGT AAACCTCAGA TTGCCTATGA TTTTGAGACA 6900 ACAGACCGGA TTTTGGCAGA AGTGTTTGCT TACTTCACCA AACCTCTTGG AATTAAATTG 6960 CCACCTTATT TTGATATTGT TCACTTTGAC CAAGCGGCAG CTATTTTCAA CAAATATCCG 7020 CTCAAGTTTG TCAACTGCGT TAACTCTATC GGAAACGGCC TCTATATAGA AGACGAATCT 7080 GTCGTTATTC GGCCTAAGAA TGGTTTTGGT GGAATTGGTG GAGAATACAT CAAACCGACT 7140 GCTTTAGCCA ATGTTCACGC CTTTTATCAA CGTTTAAATC CTCAAATCCA AATTATCGGA 7200

1057

ACAGGTGG	CG	TTCTGACTGG	TCGAGATGCC	TTTGAACACA	TCCTCTGTGG	AGCAAGTATG	7260
GTGCAGGT	'GG	GAACGACCCT	TCACAAAGAA	GGCGTCAGTG	CTTTTGACCG	CATTACCAAT	7320
GAACTGAA	LA G	CAATCATGGT	GGAAAAAGGC	TACGAGAGCT	TAGAAGATTT	CCGTGGGAAA	7380
TTGCGCT#	ΥA	TTGACTAAAT	TAAATCGAAA	AATCTGAAGA	AAGGAGAGAC	GATGCTAGCC	7440
attgaaga	LAA	GTCAGAAGTT	GACTTTATCA	AATTTACCGA	GCCTGAGCCT	ATTTACAGGG	7500
ACAGATCA	\GG	GTCAGTTTGA	AGTGATGAAG	AGTCAAATGT	TGAAACAGAT	TGGGTATGAT	7560
TCTGCTGA	CC	TCAACTTTGC	CTACTTTGAT	ATGAAAGAAG	TAGTTTACAA	GGATGTGGAA	7620
CTGGAGTT	:GG	TCAGCCTTCC	TTTCTTTGCG	GATGAGAAAA	TCGTGATATT	AGATTATTTT	7680
atggatat	'CA	CGACTGCTAA	GAAACGCTTT	TTGACAGATG	ATGAGCTTAA	GTCATTTGAG	7740
GAATACCI	TG	ACAATCCTTC	TCCAACAACC	AAGTTGATAA	TCTTTGCAGA	AGGAAAGCTG	7800
GATAGCAA	AA	GACGGTTAGT	CAAATTACTT	AAGCGTGATG	CCAAGGCCTT	CGATGCAGTA	7860
GAAGTAAA	AG	AACAAGAATT	GCGCCAGTAC	TTCCAAAAGT	GGAGTCAGAA	ACAAGGTCTG	7920
CAGTTTAC	CA	ATCATTCTTT	TGAAAATCTC	CTCATCAAGT	CGGGGTTTCA	ATTTAGCGAA	7980
ATCCAGAA	LAA	ATCTTCTCTT	TTTACAGTCC	TATAAGGCGA	ATTCTGTTAT	TGAGGAAGAG	8040
GATATTGT	'TA	ACGCAATTCC	CAAGACTTGC	AGGACAATAT	TTTTGATTTA	ACTCAGTTTA	8100
TTCTGACT	'AA	AAAGATGGAT	CAGGCGCGCG	ATTTGGTGAG	AGACTTGACC	TTGCAAGGGG	8160
aagatgaa	LAT	CAAACTGATT	GCAGTCATGC	TGGGACAATT	TCGGACTTTT	ACTCAGGTGA	8220
AGATTTTG	GC	GGAGTCTGGC	CAAACAGAAT	CGCAGATTGC	AAGTAGTTTA	GGTAGTTATC	8280
TGGGACGT	'AA	CCCAAATCCT	TATCAAATCA	AGTTTGCATT	AAGAGATTCG	AGAGGACTTT	8340
CTTTGAGC	TT	TTTGAAGCAA	GCTATTTCCT	ATTTGATTGA	GACAGACTAT	CAGATTAAGA	8400
CAGGTCTI	TA	TGAAAAAGGT	TTCCTTTTTG	AAAAGGCACT	CTTACAGATT	GCTAGTCAGG	8460
TCAATTGA	CA	TTTGTTGAAA	CTACTAACCC	GCGG			8494

(2) INFORMATION FOR SEQ ID NO: 164:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9707 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 164:

CCGGTCAGTT CGTTCAGTAC AAGGAATCAT AATGAACGAT CAATCAGAAA AAAAGACTAG

AAAGAAGACT GTATG	GATAA TCGACCAATT	1058 GGTTTTTGG	ATTCGGGTGT	CGGGGGCTTG	120
ACCGTTGTGC GCGAG	CTCAT GCGCCAGCT	CCCCATGAAG	AAATCGTCTA	TATTGGAGAT	180
TCGGCGCGGG CGCCC	TATGG CCCCCGTCC	GCTGAGCAAA	TTCGTGAATA	TACTTGGCAG	240
CTGGTCAACT TTCTC	TTGAC CAAGGATGT	AAAATGATTG	TCATTGCTTG	TAACACTGCG	300
ACTGCGGTCG TCTGG	GAAGA AATCAAGGC	CAACTAGATA	TTCCTGTCTT	GGGTGTAATT	360
TTGCCAGGAG CTTCG					420
ACGCCCATGA CGGTA	CAATC AGACATATAC	CGTCAGAAAA	TCCATGATCT	GGATCCCGAC	480
TTACAGGTGG AGAGC	TTGGC CTGTCCCAAC	TTTGCTCCCT	TGGTTGAGTC	AGGTGCCCTG	540
TCAACCAGTG TTACC	AAGAA GGTGGTCTAT	GAAACCCTGC	GTCCCTTGGT	TGGAAAGGTG	. 600
GATAGCCTGA TTTTG	GGCTG TACTCATTAT	CCACTCCTTC	GCCCTATTAT	CCAAAATGTG	660
ATGGGGCCAA AGGTT					720
TTACTCAATT ATTTT					780
TACACAACAG CCAGT					840
ATTCATGTGG AGCAT					900
ACTGGTATGT TGGGT	CTTAT AGTATTTT	GTGGCGTTAA	CAGTTTGAGC	GACTATAAGA	960
CAGATTTTCC TCTGT	TTGAA TTCTCCAAA	TATTTGGAGA	TGAAGAGTAT	GGTTTCCCGC	1020
TTTCAGTTAC TGTTT					1080
TGCTTAATCA AGAAA					1140
TGGTTGAAAA TGGGC	AACTC TTGTATGTAC	AATTGCCTAA	AGAAGGGGTC	AATGTTCATG	1200
ATTTCTTTGA GACAA					1260
AAACCAAGGA ATTCC					1320
ACTACCCTGA CCTGC	CTGAA GTAGCAGAAA	CAGGTATGAC	CTTTGAAGAA	AATGCCCGCC	1380
TTAAGGCAGA AACCA	TTTCT CAATTAACGO	GCAAGATGGT	TTTGGCAGAT	GATTCTGGTC	1440
TCAAAGTCGA TGTCC	TTGGT GGCTTACCAC	GCGTCTGGTC	AGCTCGTTTC	GCAGGTGTGG	1500
GAGCAACTGA CCGTG	AAAAT AATGCCAAAG	TCTTGCACGA	ATTGGCCATG	GTCTTTGAAC	1560
TCAAGGACCG CTCGG	CTCAG TTCCACACA	CCCTAGTCGT	AGCCAGCCCA	AATAAGGAAA	1620
GTTTAGTTGT TGAAG	CAGAC TGGTCAGGT	АТАТТААСТТ	TGAACCTAAG	GGTGAAAATG	1680
GCTTTGGCTA TGATC					1740
CCCTGGAAGA AAAAA					1800
TATTTCCATC ATGGC.	AAAGC AAACCATCAT	TGTAATGAGC	GATTCCCATG	GCGATAGCTT	1860

GATTGTGGAA	GAAGTCCGTG	ATCGCTATGT	GGGCAAAGTC	GATGCTGTTT	TTCATAACGG	1920
CGATTCTGAA	CTACGTCCGG	ATTCTCCACT	TTGGGAGGGC	ATCCGCGTTG	TTAAAGGGAA	1980
CATGGACTTC	TACGCCGGCT	ACCCAGAACG	TCTGGTGACT	GAGCTTGGTT	CGACCAAGAT	2040
TATCCAAACT	CATGGTCACT	TGTTTGACAT	CAATTTCAAC	TTTCAAAAGT	TGGACTACTG	2100
GGCTCAGGAG	GAAGAGGCCG	CTATCTGCCT	CTATGGTCAC	TTGCATGTGC	CAAGTGCTTG	2160
GTTGGAAGGC	AAGATCCTCT	TTCTAAATCC	AGGTTCTATC	AGTCAACCAC	GAGGTACCAT	2220
CAGAGAATGT	CTCTATGCTC	GTGTGGAGAT	TGATGATAGT	TACTTCAAAG	TGGACTTTTT	2280
GACACGAGAT	CACGAGGTGT	ATCCAGGTTT	GTCCAAGGAG	TTTAGCCGAT	GATTGCCAAG	2340
GAGTTTGAGA	CTTTCTTGTT	GGGGCAGGAG	GAAACTTTTT	TGACCCCTGC	тааааатста	2400
GCTGTGTTGA	TTGATACCCA	CAATGCGGAT	CATGCGACCC	TCTTGCTCAG	TCAGATGACC	2460
TATACCCGTG	TTCCCGTTGT	GACAGATGAA	AAACAGTTTG	TTGGGACGAT	TGGACTCAGA	2520
GATATTATGG	CTTATCAGAT	GGAGCATGAC	TTGAGCCAAG	AAATCATGGC	GGATACGGAT	2580
ATCGTTCATA	TGACAAAAAC	GGACGTAGCG	GTTGTTTCGC	CTGATTTCAC	CATTACGGAG	2640
GTCTTGCACA	AGCTAGTAGA	TGAGTCCTTC	TTACCGGTTG	TGGATGCAGA	GGGTATTTTC	2700
CAAGGGATTA	TTACGCGCAA	GTCCATCCTC	AAGGCCGTTA	ATGCCCTCTT	GCATGACTTT	2760
AGTAAGGAAT	ATGAGATTCG	ATGCCAATGA	GAGACAGGAT	TTCAGCCTTT	TTAGAGGAAA	2820
AGCAGGGCTT	GTCTGTCAAT	TCCAAGCAGT	CCTATAAGTA	TGATTTGGAG	CAATTTTTAG	2880
ACATGGTAGG	TGAGCGGATT	TCTGAGACCA	GTCTCAAGAT	TTACCAAGCC	CAGCTAGCCA	2940
АТСТАААААТ	CAGCGCCCAG	AAGCGAAAGA	TTTCGGCCTG	TAACCAATTT	CTATACTTTC	3000
TCTATCAAAA	AGGAGAGGTG	GACAGCTTTT	ACCGCTTGGA	ATTAGCCAAA	CAAGCTGAAA	3060
AGAAGACGGA	AAAGCCAGAG	ATTCTATACC	TAGACTCTTT	TTGGCAGGAA	AGCGACCATC	3120
CAGAGGGCCG	CTTGCTAGCG	CTCTTAATCC	TAGAAATGGG	GCTCTTGCCC	AGTGAGATTT	3180
TAGCCATCAA	GGTTGCGGAC	ATCAATCTGG	ATTTTCAGGT	GTTGCGAATC	AGCAAGGCTT	3240
CCCAACAGAG	GATTGTCACC	ATTCCCACGG	CCTTGCTTTC	AGAATTGGAA	CCCTTGATGG	3300
GGCAGACCTA	TCTTTTTGAA	AGAGGAGAGA	AACCCTATTC	TCGTCAGTGG	GCCTTTCGTC	3360
AGTTAGAATC	TTTTGTCAAG	GAGAAAGGTT	TTCCATCCTT	ATCAGCTCAA	GTCTTACGTG	3420
AACAGTTTAT	TCTAAGACAA	ATAGAAAACA	AGGTCGATTT	GTACGAAATT	GCAAAAAA AT	3480
TAGGATTAAA	AACAGTCCTG	ACCTTAGAAA	AATATAGATA	ATGGATATTA	aattaaaaga	3540
TTTTGAAGGA	CCCCTGGACT	TGCTCTTGCA	TCTGGTTTCT	AAGTACCAGA	TGGATATCTA	3600

			1060			
CGATGTGCCC	ATTACGGAAG	TCATCGAACA	GTATCTAGCC	TATGTCTCAA	CCCTGCAGGC	3660
CATGCGTCTG	GAAGTGACGG	GTGAGTACAT	GGTCATGGCT	AGTCAGCTCA	TGCTGATTAA	3720
GAGTCGTAAA	CTCCTTCCGA	AGGTAGCAGA	AGTGACAGAC	TTGGGGGATG	ACCTGGAGCA	3780
GGACCTCCTC	TCTCAAATCG	AAGAATATCG	CAAGTTCAAG	CTCTTGGGTG	AGCACTTGGA	3840
AGCCAAGCAC	CAAGAACGGG	CCCAGTATTA	TTCCAAAGCG	CCGACAGAGT	TGATTTACGA	3900
AGATGCGGAG	CTTGTGCATG	ACAAGACGAC	CATTGACCTC	TTTTTGACTT	TTTCAAATAT	3960
CCTAGCCAAG	AAAAAAGAGG	AGTTTGCACA	AAATCACACG	ACGATCTTGC	GGGATGAGTA	4020
Taagattgag	GACATGATGA	TTATCGTGAA	AGAGTCCTTG	ATTGGACGAG	ATCAATTGCG	4080
CTTGCAGGAT	TTGTTCAAGG	AAGCCCAGAA	TGTCCAAGAG	GTCATCACCC	TCTTTTTGGC	4140
AACCCTAGAG	ТТААТСАААА	CCCAGGAGTT	GATCCTCGTG	CAAGAGGAGA	GTTTTGGAGA	4200
TATCTATCTC	ATGGAAAAGA	AGGAAGAAAG	TCAAGTGCCT	CAAAGCTAGA	CTTGATAGAG	4260
AGGAAAGATG	AGTACTTTAG	CAAAAATAGA	AGCGCTCTTG	TTTGTAGCGG	GTGAAGATGG	4320
GATTCGGGTC	CGCCAGTTAG	CTGAACTCCT	CTCTCTGCCA	CCGACAGGCA	TCCAGCAAAG	4380
TTTAGGAAAA	TTAGCCCAGA	AGTATGAAAA	GGACCCAGAT	TCCAGTTTGG	CTTTGATTGA	4440
GACAAGTGGT	GCTTATAGAT	TGGTGACCAA	GCCTCAATTT	GCAGAGATTT	TGAAGGAATA	4500
CTCTAAGGCG	CCTATCAACC	AGAGCTTGTC	TCGGGCTGCC	CTTGAGACCT	TGTCCATTAT	4560
TGCCTACAAA	CAGCCGATTA	CGCGGATAGA	AATTGATGCC	ATCCGTGGAG	TTAACTCGAG	4620
TGGAGCCTTG	GCAAAGTTGC	AGGCTTTTGA	CCTGATAAAG	GAAGACGGGA	AAAAGGAAGT	4680
ATTGGGGCGC	CCCAACCTCT	ATGTGACTAC	GGATTATTTC	CTAGATTACA	TGGGGATAAA	4740
CCATTTAGAA	GAATTACCAG	TGATTGATGA	GCTTGAGATT	CAAGCCCAAG	AAAGCCAATT	4800
atttggtgaa	AGGATAGAAG	AAGATGAGAA	TCAATAAGTA	TATTGCCCAC	GCAGGTGTGG	4860
CCAGTAGGAG	AAAAGCAGAA	GAGCTGATTA	AGCAAGGCTT	GGTGACGGTT	AACGGCCAAG	4920
TGGTGCGTGA	ACTAGCAACC	ACTATCAAGT	CAGGCGACAA	GGTCGAAGTT	GAAGGTCAAC	4980
СТАТСТАСАА	CGAAGAAAAG	GTCTACTATC	TGCTTAACAA	ACCACGCGGT	GTGATTTCCA	5040
GTGTGACAGA	TGATAAGGGT	CGCAAGACGG	TTGTCGACCT	CTTGCCCAAT	GTCAAAGAGC	5100
GTATTTACCC	TGTGGGTCGT	TTGGACTGGG	ATACATCAGG	TGTCTTGATT	TTGACCAATG	5160
ATGGGGACTT	TACAGACGAG	ATGATTCACC	CTCGTAATGA	GATTGACAAG	GTTTATGTCG	5220
CGCGTGTTAA	AGGTGTGGCC	AATAAGGACA	ATCTCCGCCC	CTTGACCCGT	GGTCTTGAGA	5280
PTGATGGTAA	GAAAACCAAG	CCAGCTGTTT	ATGAAATTCT	CAAAGTGGAC	CCAGTCAAAA	5340
ATCGCTCTGT	GGTGCAGTTG	ACCATCCATG	AAGGGCGTAA	CCATCAGGTT	AAAAAGATKOT	5400

TTGAAGCTGT	TGGTCTCCAA	GTAGATAAGT	TGTCTCGGAC	TCGTTTCGGA	CACCTAGACT	5460
TGACAGGACT	CCGTCCAGGA	GAATCCCGTC	GTCTTAATAA	AAAAGAAATC	AGCCAACTAC	5520
ACACCATGGC	TGTAACTAAG	AAATAATGAA	ACGAATTTTA	ATAGCGCCTG	TGCGCTTTTA	5580
CCAACGTTTT	ATCTCACCAG	TCTTTCCACC	CTCTTGTCGC	TTTGAGCTGA	CTTGTTCCAA	5640
CTACATGATT	CAGGCTATTG	AAAAACATGG	GTTTAAGGGG	GTATTGATGG	GCTTGGCTCG	5700
GATTTTACGT	TGTCATCCCT	GGTCGAAAAC	AGGTAAGGAC	CCCGTTCCAG	ACCGCTTTTC	5760
CCTTAAACGA	AATCAAGAAG	GGGAATGAGG	TGGGGTAAAT	AGATTTCAAA	ATGATAAAAA	5820
CGCATCCTAT	CAGGTTTGAG	TGAACTTGAT	AGGATGCGTT	TTAGAATGTC	TATTTTAAAA	5880
ACTCTTCGAA	AATCTCTTCA	AACCGCGTCA	GCTTTCATCT	GCAACCTCAA	AACAGTGTTT	5940
TGAGCAACCT	GCGGCTAGTT	TCCTAGTTTG	CTCTTTGATT	TTCATTGAGT	ATTAAATTGA	6000
GTTTGAAGTG	GCTTATTTCA	AAGCTTTTTG	TATGTCTTCA	ATCATGAGTT	TTGTTGATTC	6060
AAGTCCGCCT	CCGCTTAGAT	ACCAGAGGTC	TGGTGTTAGT	TGGATAATCT	TACCATTTTT	6120
AGCAGCAGGT	GTTTCAGCGA	TAAGGGCATT	TTCTAGGACA	CCGTCGTTGC	TAGAGTTGTC	6180
CCCACCGATG	GCAAGGGTAC	GGTTGATGAC	AAAGAGGATG	TCAGGGTTGA	TTTCTTTGAC	6240
ACTTTCAAAG	CTGACTTCTT	GTCCGTGGCG	TGAGTCTTCA	AATTTTGTAT	CAGTTGGTTT	6300
GAATTTCAAG	GTTTGGTACA	AGAAAGAGAA	ACGAGATTTG	GCACCAAAGG	CTGCCATTTT	6360
PCCTTCATTA	AGGAGGATCG	CAAGGGCTTT	TTTGTCAGAG	CTTTCATTTT	TAGTAGCGAC	6420
PTCTTGGATG	CTCTTGTCTA	GCTTGGTCAA	TTCTTCCTTG	GCTTTCTGTG	TACCAGTTTC	6480
GCCGAAGGCA	CTTGCTAAGG	ATTCGATATT	AGCCTTGGTA	GAAGTCCAGT	AGTCGTCCTT	6540
CTTGCTTGG	AAGAGAACGG	TTGGGGCGAT	TTCTTTGAAT	TTGTCTACGA	ATTTTTGTGT	6600
ACGTGGCGAA	GCGATAATCA	AATCAGGCTC	AAGGGCGGCG	ATAGCTTCTA	AATCAGGTTC	6660
PTTCATAGAA	CCAACATTTT	TGACAGTTCC	CACTAGGTCT	TTTAGATAAG	TCGGAACAGT	6720
PTTTGTAGGC	ATTCCGACGA	TATTTTTTC	AAATCCTAAA	GCGCGAATAG	TATCCGCAGC	6780
CCGAGGTCA	AAGGTCACAA	TCTTTTCAGG	AACTTTGGAA	AGTTTGACCT	CGTCCAGTGA-	6840
ACTTTTAATG	GTTACCTCTG	TTGGAGCAGA	GCTACTGGTC	TCTGTCTGAC	TAGTGCTTGA	6900
STTTGTACTA	CATGCACCAA	GTAGGAGCAA	GAAGCTGGCC	ACTAGGGCAG	TGAAATAAAG	6960
PTTAAGGGAT	GTTTTCATAA	TTTCTCCTTT	TTAAAATGTG	ATAACGATTT	AGGGAGTCTC	7020
гтаатсттат	TGACTAAGAG	ACTGAAGGTT	CTCTAACTTG	AGCTTTTATG	TTACTAGCTA	7080
PAGATACAGA	TCTTTTTGTC	ATTGATATCA	GCTAGCGTGA	TGGGAATCTC	ATAAAGTTGA	7140

CTGAGCAGGT	CAGCCTGCAT	GATTTGATCG	1062 GTTCTTCCCT	TGCTAAAGAC	CTGGCCGTCC	7200
TTGAAGGCGA	CAATTTCATC	TGCATACTGA	CTGGCCATGT	TGATATCGTG	GAGGACGATG	7260
ATAATGGTCT	TGCCGAGTTC	CTCCACCAGT	CGTCGAAGAA	TCTGCATCAT	GCTGACGCTT	7320
TGCTTGATAT	CGAGATTGTT	GAGTGGTTCG	TCCAGCAAGA	TAAAGTCCGT	ATCCTGGGCC	7380
AGTACCATAG	CGATAAAGAC	GCGCTGGAGT	TGCCCCCCTG	ACAGGCTATT	GATGTAGCGG	7440
TCTTTTAAGT	TGGTCAGTTC	TAAATAGTTC	AGAGTTTCTC	GGATTTTTTC	CCAGTCTTCT	7500
GATCTAAGTC	GACCTCGGCT	GTAGGGAAAA	CGTCCAAAAC	TGACCAGTTC	TTCAACAGTC	7560
AATTTGGCTT	GGTAATTGAT	TTTCTGTTTT	AGGATGGTTA	GTTCTTGGGC	CAGTTCTTGC	7620
GAATTCCAGC	TCTCGATTTC	ACCTCCTTTG	ATACTGAGAA	CTCCCTGATC	TTTCTTGGTT	7680
AGCCTGCTCA	TGATGGAGAG	GAGAGTCGAT	TTTCCAGCAC	CATTTGGACC	AATAAAGGCT	7740
GTCAGTTTTT	GAGGACTGAC	TTCAAGCGAA	ATGCCTTGCA	AAATATCCTG	TTTTTGAATG	7800
GATTTGTCAA	TGTTTTCCAG	TTTCACTGAC	GAGACCTCCT	ATATAGTAAG	ATAAAGAATA	7860
AGAAGCCACC	CACACTCTCA	ATGATCATAC	TGATACGAAT	TTCCAGTGCA	AAGACTCGTT	7920
CAATCAAGGC	TTGCCCCAAG	GTTAAGCTAA	TAAATCCAAC	CAGAATGGCC	ACTATAAAGA	7980
GTAACTTGTG	CTGATAGTCT	TTGACAATCA	GGTAGGTGAG	GTTGGCCAGT	ATAAAĠCCGA	8040
AGAAGGCCAT	AGGTCCTACC	AAGGCAGTGG	CCGTTGAGGT	CAAAAGCACG	ATTCCCCAGA	8100
GGAGCTCTTT	CTGTTCTTTT	TCAACATCGA	GTCCCAATAT	CTGAGCCGTT	TCTCTTTGCA	8160
GGTGCAAGAC	ATCTAGAACG	ACTGCTTTTC	GAAAGAAAA	GATTGTCAAA	GCGAGGATGA	8220
TCAGAGAACC	GATGGCTAGG	ATGGAAGTGT	TGAGATGTTG	AAAGGAGGCA	AAAAGACTAT	8280
TTTGCAGTTT	ATCGTATTCG	TTTGGATCCA	TTAGGACTTG	AAGGAAGGTG	CTGATATTTC	8340
GAAAGAGACT	TCTGAGCGCT	AGACAGATCA	GCAGGACGAA	GACCAGGTCT	TGCTTCATCA	8400
GTGTCTTCAA	GTAACCTTGT	AAGGCGAGAA	AGAAGAGGGA	CTGGACAAGA	AGTAAGACTA	8460
GGAATTCTAA	GATAGGGGAT	TTGCCAAGTT	GAAGAAACTT	GCTTTCAAAA	ACCAGTAGTA	8520
GGGTTTGTAG	TAGGACGTAG	AAGGATTCAA	TTCCCAAAAT	ACTAGGCGTC	AGGAAGCGAT	3580
TTTCCGTCAG	GGTTTGAAAA	CTAATGGTCG	AAATCCCAGT	CGCGAŢGGCT	ACCAAGAGAT	8640
AAACGATGAT	CTTTTGGGAA	CGCAACTTCC	AAGCAAAGGC	TGACAAGTGA	GTGATGGGCC	8700
AAAAGTAGAG	AAGACAAGCT	CCGATGGCAA	GAATAATGAG	AATCCAGAAG	AGCTTGGTAT	8760
GTTTGCTTTT	AGTCTGCATC	TTTTCGTCCC	CCTCTCCAGA	GAAGTAGGAT	AAAGACGAGA	8820
CTACCGATGA	TTCCTAGCAA	GAGACTGACA	GACAACTCAT	AGGGCCTAAT	CAGAACTCGG	8880
GATAGGATAT	CGCAAGCCAG	AACTAGATTG	GCACCAACCA	GTGCGACCAT	GAGTTTGGTT	8940

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TGACTTAGAT	TATCTCCATA	GCGCTTGCGA	ACAAGATTGG	GAACGATAAC	TCCGAGAAAT	9000
GGTAGGCCAC	CCACGGTAAT	CATGGTGACG	CTTGTCGTTA	GCGCCACCAG	AAAGAGGCC	9060
AGTTTTTCAA	GTAGGGAGTA	GGAAATCCCC	AAACTCTCGC	TGGTTTCTTT	CCCTAGATTC	9120
ATGATGGTGA	AGGTTTGGGA	TAATTTCCAA	ACGGTTATCA	GGATGATGAG	GCCTAAGAAG	9180
AGCCACTCAT	ACTGATGGGT	CTGAATCATG	GAGAAGGAGC	CCTGGGTCCA	GGCAGTCATA	9240
CTCTGAACCA	GATTGAAACG	ATAGGCGATA	ACTTCTGTGA	CTGAGCCGAT	AATCCCGCTA	9300
TAGATGATCC	CAATCAGAGG	CAACATCCAC	CTTTCCTTTA	CAGTAAAAAT	GGTCATAAAG	9360
GCTAGGAAGA	AGAGGGTGAA	TACGATGGAT	GAAACAAAAG	CGAAGAGCAT	CTTGTGGGTC	9420
AGACTAGCCG	ATGGAAAGAC	AAAAAGGCTC	AGCACCATTC	CCAGTTTGGC	GGCTTCAGTC	9480
GTTCCAACTG	TACTCGGTGC	AGCAAACTGA	TTTTGGGTAA	TAGTCTGCAT	GAGAAGGCCT	9540
GCCATACTCA	TACTAGAGGC	AGTCAGGAGA	ATACTGATAĠ	TTCTTGGGAG	ACGGGACTCT	9600
TGAAAGAGGA	GCCAGGTCTG	CTGGTCGAAA	TCAAATAGCT	TTCCCCATGA	AAAATCACTG	9660
GTCCCAATGC	TAATAGAGAG	AAAGACTAGG	AGTAGAAGTA	AGCCAGG		9707

(2) INFORMATION FOR SEQ ID NO: 165:

- (i) SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 5910 base pairs

 (B) TYPE: nucleic acid

 (C) STRANDEDNESS: double

 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 165:

CCGCAATTAT	GCTTGAAAAG	GAGTATACTT	ATAAGTAACG	CAAACGTTTG	CGTCTGAAAA	60
ATACGCAACG	TTCCATTATT	TTAACACACG	AGGTGCTATT	ATGAAAAAAC	GTCAAAGTGG	120
TGTGTTGATG	CACATCTCTT	CTCTTCCAGG	AGCTTACGGA	ATCGGATCAT	TTGGTCAAAG	180
TGCTTACGAC	TTCGTTGATT	TCTTGGTCCG	TACAAAACAA	CGTTACTGGC	AAATCCTTCC	240
ATTAGGAGCA	ACTAGTTACG	GGGATTCTCC	TTACCAATCT	TTCTCAGCCT	TCGCAGGAAA	300
CACTCATTTT	ATCGATTTAG	ATATCTTGGT	GGAGCAAGGT	TTGTTGGAAG	CAAGTGACCT	360
TGAAGGAGTT	GACTTTGGTA	GCGATGCGTC	TGAAGTTGAC	TATGCTAAAA	TCTACTATGC	. 420
ACGTCGTCCT	CTTTTAGAAA	AAGCGGTGAA	ACGTTTCTTT	GAAGTCGGAG	ATGTTAAAGA	480
TTTTGAGAAA	TTTGCTCAAG	ACAACCAATC	ATGGCTTGAG	CTCTTTGCTG	AGTATATGGC	540
TATCAAAGAG	TATTTTGACA	ATCTTGCTTG	GACTGAATGG	CCAGATGCAG	ATGCTCGTGC	600

			1064			
TCGTAAAGCT	TCAGCACTTG	AAAGCTATCG	TGAGCAATTG	GCAGACAAGT	TGGTTTACCA	660
CCGTGTGACT	CAATACTTCT	TCTTCCAACA	ATGGTTGAAA	TTGAAAGCTT	ACGCTAACGA	720
CAACCACATC	GAAATCGTTG	GGGACATGCC	AATCTACGTA	GCGGAAGATT	CAAGTGATAT	780
GTGGGCAAAT	CCACATCTCT	TCAAAACAGA	TGTCAATGGT	AAGGCTACTT	GTATCGCAGG	840
ATGCCCACCA	GATGAGTTTT	CTGTAACTGG	TCAGCTTTGG	CCTAATCCAA	TCTATGACTG	900
GGAAGCAATG	GACAAAGACG	GCTACAAATG	GTGGATTGAA	CGCTTGCGTG	AAAGCTTCAA	960
AATCTACGAT	ATCGTTCGTA	TCGACCACTT	CCGTGGCTTC	GAATCTTACT	GGGAAATCCC	1020
TGCTGGTTCC	GATACAGCAG	CACCTGGTGA	GTGGGTGAAA	GGTCCAGGTT	ACAAGCTTTT	1080
TGCAGCCGTT	AAGGAAGAAC	TTGGTGAGCT	AAACATCATC	GCAGAAGACC	TTGGCTTCAT	1140
GACAGATGAA	GTGATCGAAT	TGCGTGAACG	TACTGGCTTC	CCAGGAATGA	AGATTCTTCA	1200
ATTTGCCTTC	AACCCAGAAG	ACGAAAGCAT	TGATAGCCCA	CACTTGGCAC	CTGCTAACTC	1260
AGTTATGTAC	ACAGGAACAC	ACGATAACAA	TACGGTTCTT	GGTTGGTACC	GTAATGAGAT '	1320
TGATGATGCG	ACTCGTGAGT	ACATGGCTCG	TTACACGAAC	CGTAAAGAAT	ACGAAACAGT	1380
GGTACACGCT	ATGCTTCGTA	CAGTATTTTC	ATCAGTTAGC	TTTATGGCAA	TTGCAACTAT	1440
GCAAGATTTA	CTAGAATTGG	ATGAGGCAGC	TCGTATGAAC	ТТСССАТСТА	CCCTTGGTGG	1500
AAACTGGTCT	TGGCGTATGA	CTGAAGATCA	ATTGACACCA	GCTGTCGAGG	AAGGTTTGCT	1560
TGACTTGACA	ACAATTTATC	GCCGAATTAA	TGAAAATTTG	GTAGATTTAA	AGAAATAAGA	1620
CAATAATCAG	GAGACAACTA	AACATGTTAT	CACTACAAGA	ATTTGTACAA	AATCGTTACA	1680
аталалссат	TGCAGAATGT	AGCAATGAAG	AGCTTTACCT	TGCTCTTCTT	AACTACAGCA	1740
AGCTTGCAAG	CAGCCAAAAA	CCAGTĆAACA	CTGGTAAGAA	AAAAGTTTAC	TACATCTCAG	1800
CTGAGTTCTT	GATTGGTAAA	CTCTTGTCAA	ACAACTTGAT	TAACCTTGGT	CTTTACGACG	1860
atgttaaaaa	AGAACTTGCA	GCTGCAGGTA	AAGACTTGAT	CGAAGTTGAA	GAAGTTGAAT	1920
TGGAACCATC	TCTTGGTAAT	GGTGGTTTGG	GACGTTTGGC	TGCCTGCTTT	ATCGACTCAA	1980
PTGCTACTCT	TGGTTTGAAT	GGTGACGGTG	TTGGTCTTAA	CTACCACTTT	GGTCTTTTCC	2040
AACAAGTTCT	TAAAAACAAC	CAACAAGAAA	CAATTCCAAA	TGCATGGTTG	ACAGAGCAAA	2100
ACTGGTTGGT	TCGCTCAAGC	CGTAGCTACC	AAGTACCATT	TGCAGACTTT	ACTTTGACAT	2160
CAACTCTTTA	CGATATTGAT	GTTACTGGTT	ATGAAACAGC	GACTAAAAAC	CGCTTGCGTT	2220
IGTTTGACTT	GGATTCAGTT	GATTCTTCTA	TTATTAAAGA	TGGTATCAAC	TTTGAÇAAGA	2280
CAGATATCGC	TCGCAACTTA	ACTCTCTTCC	TTTACCCAGA	TGATAGTGAC	CGTCAAGGTG	2340
AATTGCTCCG	TATCTTCCAA	CAATACTTCA	TGGTTTCAAA	CGGTGCGCAA	TTGATCATCG	2400

ACGAAGCAAT	CGAAAAAGGA	AGCAACTTGC	ATGACCTTGC	TGACTACGCA	GTTGTCCAAA	2460
TCAACGATAC	TCACCCATCA	ATGGTGATTC	CTGAATTGAT	TCGTCTTTTG	ACTGCACGTG	2520
GTATCGATCT	TGACGAAGCA	ATCTCAATTG	TTCGTAGCAT	GACTGCCTAC	ACTAACCACA	2580
CAATCCTTGC	TGAAGCGCTT	GAAAAATGGC	CTCTTGAATT	CTTGCAAGAA	GTGGTTCCTC	2640
ACTTGGTACC	AATCATCGAA	GAATTGGACC	GTCGTGTGAA	GGCAGAGTAC	AAAGATCCAG	2700
CTGTTCAAĄI	CATCGATGAG	AGCGGACGTG	TTCACATGGC	TCACATGGAT	ATCCACTACG	2760
GATACAGTGT	TAACGGGGTT	GCAGCACTCC	ATACTGAAAT	CTTGAAAAAT	TCTGAGTTGA	2820
AAGCCTTCTA	CGACCTTTAC	CCAGAAAAGT	TCAACAACAA	AACAAACGGT	ATCACTTTCC	2880
STCGTTGGCT	TATGCATGCT	AACCCAAGAT	TGTCTCACTA	CTTGGATGAG	ATTCTTGGAG	2940
ATGGTTGGCA	CCATGAAGCA	GATGAGCTTG	AAAAACTTTT	GTCTTATGAA	GACAAAGCAG	3000
TTGTCAAAGA	AAAATTGGAA	AGCATCAAGG	CTCACAACAA	ACGTAAATTG	GCTCGTCACT	3060
rgaaagaaca	CCAAGGTGTG	GAAATCAATC	CAAATTCTAT	CTTTGATATC	CAAATCAAAC	3120
GTCTTCACGA	GTACAAACGC	CAACAAATGA	ACCCTTTGTA	CGTGATCCAC	AAATACCTTG	3180
ACATCAAAGO	TGGTAACATC	CCTGCTCGTC	CAATCACAAT	CTTCTTTGGT	GGTAAAGCAG	3240
CTCCAGCCTA	CACAATCGCT	CAAGACATTA	TCCATTTAAT	CCTTTGCATG	TCAGAAGTTA	3300
PTGCTAACGA	TCCAGCAGTA	GCTCCACACT	TGCAAGTAGT	TATGGTTGAA	AACTACAACG	3360
PTACTGCAGO	AAGTTTCCTT	ATCCCAGCAT	GTGATATCTC	AGAACAAATC	TCACTTGCTT	3420
CTAAAGAAGC	TTCAGGTACT	GGTAACATGA	AATTCATGTT	GAACGGAGCT	TTGACACTTG	3480
GTACTATGGA	CGGTGCTAAC	GTGGAAATCG	CTGAGTTGGT	TGGAGAAGAA	AACATCTACA	3540
PCTTCGGTGA	AGATTCAGAA	ACTGTTATCG	ACCTTTACGC	AAAAGCAGCT	TACAAATCAA	3600
GCGAATTCTA	CGCTCGTGAA	GCTATCAAAC	CATTGGTTGA	CTTCATCGTT	AGTGATGCAG	3660
PTCTTGCAGC	TGGAAACAAA	GAGCGCTTGG	AACGTTTTTA	CAATGAATTG	ATCAACAAAG	. 3720
ACTGGTTCAT	GACTCTTCTT	GATTTGGAAG	ACTACATCAA	AGTCAAAGAG	CAAATGCTTG	3780
CTGACTACGA	AGACCGTGAC	GCATGGTTGG	ATAAAGTCAT	CGTTAACATT	TCTAAAGCAG	3840
SATTCTTCTC	ATCTGACCGT	ACAATCGCTC	AGTATAACGA	AGACATCTGG	CACTTGAACT	3900
ATACTCTTC	GAAAATCTCT	TCAAACCACG	TCAGCTTTAT	CTGCAACCTC	AAAGCAGTGC	3960
rttgagcaac	TGCGGCTAGC	TTCCTAGTTT	GCTCTTTGAT	TTTCATTGAG	TATAAGATAC	4020
AATTTATAC	TAATACATTT	TGTAAAAAAG	CGAGTTTCGA	TTGAAATTCG	СТТТТТТААТ	4080
SATGTAGATT	TGGGTCAATC	TTGTCTAAAA	ATAGGGAAAT	CCTAGATACA	GTGAAGGCTT	4140

			1066			
TAAATGCTGG	TTTTTACTGT	CCTCAGCCTT	ATATTTTTC	GTAGTTGGTT	ACCTCATATC	4200
ТАТТАТАТТС	GCTTACATAA	AGTATTATAA	TATAATTGTA	GGAAAGAAGG	TGTTTTTATG	4260
ATATACACAC	TTAAATTGGT	GTTGTTTATT	ACCTTTCTTG	TAATAAGCTT	GTTACCTGAT	4320
AAGATTTTTG	GAAAAAATAA	AAAAATTTGG	AAAATAGTTT	TTGCAATATT	GACGGCAGTG	4380
GCAGCATTGT	CATTTATGTA	CTAAGTTATT	TTAAGAATGT	AGGGAAATAA	ACCCTACATT	4440
CTTTTTAGTT	TTTTCTGTTT	TCTAAATTCT	ATTTATCCAA	GCGATTCAAC	ATTTCTTGCT	4500
TCTTCGCTTC	AAGTTCTGCA	CGCTTTTCTT	CGATTTCGGC	ATGTTTTTC	TCGAGTTCAG	4560
AACAACTTGC	ACCATTGCTA	AATTCTTTTC	GCCATCAGGA	GATAGGGTGA	GTCGACATGT	4620
CTATTACTCA	CCCAAAGCAG	TCCTACAAAG	CAGGAATTT	CTGTTACTTT	TTTGGAAATA	4680
GTAACGTTTA	TACAGCTTTG	ACACTTCGTA	TCAAAGCGCC	AAACACACTC	CGAGGGGTTT	4740
ACAGAAAGCA	GAAAAGGAAT	GATCTGGTAT	AAGATCATTC	CTTTTCyCTC	TTTTTCTTTA	4800
AGTAATTATA	TACAATGTAC	GACGAAGTCG	TCATTGCAAT	GCTGATCCAC	CACCTAAAGG	4860
GAACTTTAAA	CAACATTGAT	AAGATAAAGA	АТАТАААСАА	CGAAAATACG	TTATACCCAA	4920
TAATTTTAT	TGTATATCTC	ATGATTAAAA	GTTAATCCTT	CCGTTGTTAG	GAATGGCATC	4980
ATTTTTATCC	CATAATTGTG	CTAAATAAGT	CCCCGGTGAT	AATAAATTCA	TAGCGAATTC	5040
TAAAGCAACA	TCATTTACAA	ACCAACTACC	TAGATATCTA	GAAATTGCTG	AACGAATAGC	5100
ACTTTTTGCT	GCATGTTTTC	CTTTTACTTT	AATTAGATTT	GCAAGGCCTG	CAGTAGTTCC	5160
TCCTAATGCT	AAAGCTATTG	CAGTATCTAA	TAGAGCACCC	ATTTGATTAA	CTGTAATACC	5220
TTGCCAAACT	GCTCTAAATG	GAGAGTATGT	AGGTGGGATT	GTATAATCGC	CTTGTAATTG	5280
TCGGTTAATT	ACTTCTTTGA	TCCATTGTTG	TGAGACGTCT	GGATGAAAAG	ATTGGATTTC	5340
GTTTGCAAGT	GTATTGATTT	GTTCTTCTGT	TAGAGAAGTG	ACAGGTTGAA	GTTCCATATT	5400
TGTTTCAATT	TGTGATACTT	GTTCAGAAGC	GTATACAGCT	GAAACACTTG	GAATCGCTGA	5460
TACAATTAAC	ACAATTGACG	TCAAAAAAAC	CGAAATAAAT	TTCATTAATT	TGTTCATGAG	5520
CTTTTCTCCT	TTTTATTTGC	ATCTGCTTAC	ATTTTATCAT	ATACTGTTAT	TATAGTCAAA	5580
AAAATATGCT	ATTATGTTAA	ТТТАТААААА	TTCAAAATAT	AAATGGACGG	ATTTATTTTG	5640
GATTTTATTT	GTTATTTTGA	CCTGCCTCTA	TATTGGTAAC	CATGATTTGT	TTACTCTCAA	5700
TCATCAAGAA	TTCTCTTTTC	GTGGTAGCGT	TTGGGGTCTG	GTACTGGCCT	TATATCACTT	5760
ACTATTCATT	GATAAGTTTG	TTATATCGAA	TCGAAAATAA	AGATTAÇAGC	TATGCTTGAC	5820
TGTGTACTTT	TAGGATTTAT	TTTGGAGGAA	GATTTTGTCT	CTATTATTTA	TTATTTTAAA	5880
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1067

(2) INFORMATION FOR SEQ ID NO: 166:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 5406 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 166:

GGCATAGCGA	CTCATTTTTT	CAACTGTCCA	GGCTGGATAC	CAGACTAATT	TAACCTCAGT	60
ATCCGTTACT	TCTGGAACCT	CTATCATAGC	ATCATAAATC	TGGTCTGTCA	AAAGGTCTGC	120
TAAGGGACAA	CCCATAGTTG	TCAAAGTCAT	GTCAATCTCT	GTTTGCCCTG	TGTCACCGTC	180
AAAACGAATC	TCATAGATCA	AACCAAGATT	GACAATATCG	ATTCCCAACT	CAGGGTCGAT	240
GACTTCTTCC	AAGGCTGTTA	AAATCCGTGT	TTTGATGTTT	TCAATTTGCT	CTTCTGTATA	300
AGCCATATTT	TCCTCACTCT	TAGTCTTCAA	TAAAATCACG	AAGCGGTTTG	CTACGACTTG	360
GTTGGCGTAG	TTTTCTCAAA	GCCTTTGCTT	CAATCTGACG	GATACGCTCA	CGAGTTACGT	420
TAAAGACTTT	CCCCACATCT	TCAAGTGTGC	GCATTTTTCC	ATCATCTAGT	CCAAAACGTA	480
GACGCAGAAC	ATTTTCTTCA	CGGTCTGTAA	GAGTATCTAA	GATTTCATCC	AATTGCTCAC	540
GCAAGACGAT	ACGAGTCGTA	TAATCCACTG	GATTTTCAAT	CACTTCATCT	TCGATAAAGT	600
CTCCAAGGTG	GCTATCGTCC	TCTTCACCGA	TAGGAGTTTC	AAGAGATACT	GGTTCTTGGG	660
CAATCTTCAA	GATTTCACGA	ACCTTATCAG	GTGTCATATC	CATTCGTTCA	GCAATCTGTT	720
CTGGTGTCGG	ATCTTGCCCC	AATTCTTGAA	GGAGATTCCG	CTGTTCACGA	ACCAATTTAT	780
TGATAGTTTC	AACCATGTGA	ACTGGGATAC	GGATGGTACG	AGCTTGGTCC	GCAATAGCAC	840
GAGTGATAGC	CTGACGAATC	CACCAAGTTG	CATAAGTTGA	AAACTTGAAC	CCTTTAGAAT	900
AGTCAAACTT	GTCAACCGCC	TTCATCAAGC	CCATATTTCC	TTCTTGAATC	AAGTCAAGGA	960
ACTGCATACC	ACGACCGACA	TAGCGTTTGG	CAATGGAAAC	AACCAAACGA	AGATTGGCTT	1020
CCGCAAGACG	TTGTTTGGCT	TCGATATCAC	CAGCTTCAAC	AGCCAGTGCC	AACTCTTTCT	1080
CCTCTTCATT	GGTCAAGAGA	GGAACGACCC	СТАТТТСТТТ	CAAGTACATA	CGGACAGGGT	1140
CATTGACCTT	AGCAGAAGTT	GACCCAATCA	AGTCCTCATC	GCTGAGTTCT	GGTTCTTCTT	1200
CATTGCTGAG	AACACGCGCA	CTTGGATTTC	CTTCGTTATC	TGTGATAGAA	ATGCCTGCAT	1260
CCTGAATCCG	TTGCAAGAGA	TCTTCAATCC	CATCAGCGTC	CAAGGTAAAA	GGAATAACCA	1320
GACTTGCATT	GATTTCATCA	TCTGTTGCTG	TCCCTTTTTG	CTTATGATTA	CGGATAAATT	1380

			1068			
CTGCTACCTG	TACGTCAAAT	GTTGTTACTT		TGTTGCCATT	ATTACTCCAT	1440
TCTTCTCTTT	TGGGAAATTA	AACGTTCCAA	TTCTTCTAGG	GCTGTATCTG	TATCTCCTAC	1500
ATGGCTAGCT	TCCTGCACCT	TCTTTTTGAT	TCTCATATTG	TCCTGATTCA	AGAGAGCCTT	1560
GTTTCGAGTC	ATCTCTACTT	CACTAAGTTC	CTGCGGCGAT	ATCTCAGCAG	GCAAATCCTG	1620
AGCTAAAACT	TGGTACCAAG	CTCTTTCAAC	TTCCTCTGTC	TGCTCTGCTA	AAACTTCTGG	1680
AGGAAGATTT	CCATACTGGC	CAAGCAAGTC	ATATAAGACC	TGAAATTCAG	GTGTAGCAAA	1740
TGCAAAGTCT	TCTCGCAAAC	GGTAATCGTT	CAAAACAAGA	GGGGATTCCA	TCATCCGATA	1800
GAGTAGATGG	GCTTCTGCCC	TCATAATAGC	CGATAACTGC	TTGGTGACAG	GCATGGTGAT	1860
TGGCGTCGGT	CTGGAAATTC	CTTCCATGCG	ATTCTGCCTT	TGCACCTGAC	GACTCTCATT	1920
AACAATCTGC	TCAATCTGGG	ТАТААТСААА	GGACGCCAGA	CTGTCAGCTA	AAATATGAAT	1980
ATAGCTGTTT	TGAGCAGCGA	TGGACTTTTC	TTGAACAATC	AAGGGAGCTA	TTTTTCAAG	2040
AAACTCAATC	TGAGCCTGCA	GATTTTCACT	GTTTTCAGGT	TTGTACTGAT	GAATGTAGAA	2100
CTCAATCGGA	CTAATACGAG	TTTTCGTTAA	TAGATAGGCC	AAGTCTTCTG	GACCATTTTT	2160
TTGTAGATAC	TCATCAGGAT	CCAAGTTATC	AGGCATGCTG	ACGATTTGCA	CAGGCATATC	2220
ACCAATTTCA	TCCAATGCTT	TCAATGTCGC	GGCTTGCCCA	GCCTTATCTC	CATCGTAAAC	2280
AAGAACCAAT	TTCTTGGTTA	ACCTTTTCAG	ATGCTCAACA	TGCTCTCGAC	TCAAGGCTGT	2340
TCCCATCGAC	GCCACAGCAT	TTTCGATTCC	AGCCCGATAG	GCTGCAATAA	CATCCATGAA	2400
TCCTTCCATC	AGGTAAATCT	CACTAGCTTT	TCCAGAAGAT	CTTTTTGCCC	TATCCATATG	2460
ATATAATTCG	TAACTTTTGT	TAAAAATTGC	AGTCGATCGG	CTGTTTTTAT	ACTTAGAAGT	2520
TTGTGAATCC	GTTTTTTGCC	AGATACGACC	TGAGAAGGCA	ATGACCTTTC	CTTGGTCATT	2580
TGTCAGGGGA	AACATAATGC	GATTGTGAAA	GGTGTCTACA	AATTGATTGG	CATCCGAGAG	2640
ATAAAACAGG	CCTGAATCCA	GTAAATCCTC	TTCACGATAC	TGATCAGACA	AACGTTGATA	2700
GAGATAGTTT	CGTTCTGGAG	GTGCTAAACC	AATCCAAAAA	TGTTTAAGCA	CTTCATCTGT	2760
CAACCCCCGC	TGATAAAGGT	AATTTCTGGC	CTCTTCGCCC	ATAGTCGTTG	TCATGAGAAT	2820
AGCATGGTAA	AATTTGGCTG	CATCTTCGTG	CATATCATAA	AGAGCTTGGT	GAGGTGAGGC	2880
TGACTTCTGC	TCACTATAAA	GCGGTTTTTC	AACCTCAATT	CCAACACGCT	GACCTAAGAT	2940
TTGGACTGCT	TCTATAAAGG	GAACCCCTTG	GTACTCCTCG	ATGAACTTAA	AGACATCACC	3000
TGAGCGACCA	CAACCGAAAC	AGTGATAAAA	CTGCTTGTCC	TCTACAACAT	TGAAAGATGG	3060
TGTTTTTCA	CCATGAAAAG	GACAGAGCCC	TAGATAGTTC	CGTCCTGCCT	TTTGTAAAGA	3120
AATCACATCT	CCTATGACTT	CCACAATGTT	GGCATTGTTT	TTGATTTCTT	CAATGACTTG	3180

TTTGTCAACC	ATACACAATA	CCTCCATGTT	ATCATAGTTT	ACTTTATATA	GTATACTTTA	3240
TTTCAGAAAA	AAAGTAAACC	ATTTCACTCA	TTTTCCCTAC	ТТТАТТСААА	GAGTTGATAA	3300
TAATCAGAGA	TTTTCATTTT	TGCTTTTTCT	TCTTGGTTTA	AATCTTGGAT	AATTCGTCCT	3360
TCTTTCATGA	CAATCAAGCG	ATTGCCGTAT	TTGAGAGCAT	CTTCCATATG	ATGAGTAATC	3420
ATAAGGGCTG	TTAGCTGATC	TTTCTTAACA	AATTCATCTG	TCAATTCCAT	CAAAGCAACA	3480
CTAGTCTTTG	GATCCAGGGC	AGCAGTATGC	TCATCTAACA	GGAGTAATTC	AGGTCGCTTC	3540
AAGGTTGCCA	TCAAGAGACT	CAAAGCCTGT	CTTTGTCCAC	CTGATAAGAA	CTCAATCGGT	3600
GTATTCAAGT	GTTTCTCAAG	ACCATTTCCT	ACTTTTTCAA	TGGTTGCCTG	AAATTCATCC	3660
TTATAGCTAG	TCAAGCGTCG	TGGTAACAAT	CCACGCTTTT	CACCACGAAA	CTTGGCGATT	3720
AAAAGATTTT	CAGCGACCGT	CATACGGGGA	GCTGTCCCCA	TCTTTGGATC	TTGGAAGACA	3780
CGAGACAGGT	ACTTGGCACG	CTTCTCGGGT	GAAAACTTAG	TGAGATCTTC	ACCTAAAATA	3840
CGGATAGTTC	CACTAGTTAG	TGATAAGGTC	CCTGCTATAG	TGTTAAAGAG	AGTTGATTTT	3900
CCAGCACCAT	TTCCGCCCAA	AATCGTGATA	AAGTCCCGTT	CAAAAATTTC	TAAGGAAACA	3960
TCATTTAAAA	TAATCTTTTC	TTCATCAAAG	CCATTTTTAA	CGATTTTGGT	TGCATTTTTT	4020
ААТТСТАСАА	TTGCTGTCAT	TTGCTTAACT	TGGCTCCTTT	CAAGATTGTT	TGCTTAAATG	4080
TTGGAATCAT	GAGGCAGACT	GCTAAAATCA	AGGCACTGTA	TAAACGAAGG	TAACTTGTAT	4140
TAAAGCCAAG	TGCGATAACT	GCCCACACTA	AAAATTGATA	AGCGATAGAA	CCTACAACGA	4200
TAGTAACCAA	ACGCTCTGCC	AAGCTCAAAC	TCTTGAAAAT	AACTTCTCCA	ATAATCAAAC	4260
TTGCAAGCCC	CACAACGATA	ACCCCGATCC	CTCGAGACAC	ATCGGCATAA	CCTTCTTGCT	4320
GAGCAATGAG	GGCACCTGCA	AGGGCAATCA	CACCATTTGA	TAAGACCAAG	CCCATGAGCT	4380
CCATGCGTCC	AGTATGAATC	CCGAAACTTC	TAGCCATATC	AGGATTATCC	CCTGTAGCAA	4440
TATAGGCTTG	TCCGAGTTTA	GTGTCCAAGA	AAAAGAGCAT	GAGAGCAATA	ACAATACTCA	4500
CAAAGATGAG	ACCTGTCAAG	AGTTGATTCA	AATCCGAATC	AAAAGGCAAA	ACATCCTGAA	4560
TTTGCTTGGT	TCCAAGCAGG	CCTAAATTCG	CACGTCCCAT	AATCAAGAGC	ATGATTGAGT	4620
GACAAGAAGT	CATCACCAAA	ATCCCTGAGA	GCAAGGTTGG	GATCTTCCCT	TTTGTATAAA	46 80
GAAGGCCTGC	TGCCATTCCA	GCCAAACAAC	CTGCTCCTAC	AGCAACAAGT	GTCGCTAAAA	4740
ATGGGTTCAC	GCCTTTGGTT	ATCAAAGTGA	CAGCAACAGC	TCCCCCAAGA	GGGAAGGAAC	4800
CTTCTGTCGT	CATATCTGGA	AAGTTTAAAA	TCCTAAATGT	CATAAAGATT	CCCAGACCTA	4860
GAATAGCCCA	GACAAATCCT	TGAGAAATAA	TGGAAACAAT	CATATTTTAT	TTAATCCTTT	4920

			1070			
CTATATTCAT	CTTTTTAAAA	AATGGGAAGA	GTCTCCTCCT	CCCTACCTTA	TTTATTCGAT	4980
GACTTGTCCT	GCTTCTTTGA	GAACAGACTC	AGGAATAGTA	ATACCTAGTT	CTTGTGCTAT	5040
TTTTTTATTG	ATGACTGACT	TACCAGTTGA	AAAGACATTG	ACTGGGGTAT	CGGCTGGTTT	5100
TGCACCTTTC	AAGACTTGCA	CAATCATTTT	ACCTGTTGCC	ACACCAAGGT	CATGTTGGTC	5160
AATTACAACT	GATGCCAAAC	CACCTACTTC	TACCATAGCT	GTCGCACTGG	GATAAATTGG	5220
TTTCTTAGAA	CTTTGATTGC	TAGAGACAAC	CGTTGGAAAT	CCTGATGCAA	TGGTGTTATC	5280
AATTGGAACC	CAAATAGCAT	CTACCTTGCT	AGTCATAACA	GTGACAGTTG	AGGCAATTTC	5340
ATTTGTTGAA	GGAACTGCAA	ATGTTTCCAC	TGTCAGACCT	GCCTTTTCAG	CATAAGCCTT	5400
AAATTC						5406

(2) INFORMATION FOR SEQ ID NO: 167:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 9711 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 167:

CAGCTTGCTC	TTACTATTAT	AGCAGATGTT	ATAGCTGGAA	TTATCTTGTA	TTTCGTCTGC	60
AAATGGCTAG	ATGGTAAGAA	GTAGACCGAA	TGACTAGCCT	ATAAACACCC	GTTAAATCGC	120
TAAGATACGT	CAAAAAAGCC	CTTAACTATG	GCACTAGTTA	GGGGCTTTGG	TGTTCTAATG	180
AACCTTATAC	ACTAACTACA	TTCTAGCATA	TAAGCCCAGA	TATTTCAAGA	GTTTTATTTA	240
TTGTTTAAAG	TTCTGAAAGG	TCTATAATGA	AGTTAGCCAT	CTAGTATCAA	AAAACCGACT	300
AGCTCTTATG	AACTAGTCGA	TTTCTCATCA	ATGCGCCAAC	ATTTCTTGGG	CGATTTCTTG	360
GCCAGATAGG	TTATCTGGGT	agtäggttgg	CCAGTTGTCC	ATTTCTTCAA	AGAGGGCTTC	420
TTGGCTTGTG	CCTCCAAAGA	AGATATGGAA	ATGTTCTGCC	TTAACTGGGG	CAACATTGTG	480
GTCACTAAAC	TGAACATACT	TGAATTGTCC	AGCGTCAGCA	TCTGTGGCTT	CAAAGAGGAA	540
ACGCACGCCA	CGATTGCCTT	TCTTGTAAGT	CAAAATTTTC	TTACCGACAT	ACTTGTAAGT	600
GTATTTCTTG	CTTTGTCCAC	CTTGAACAAA	TTCCATAGTA	TTATCAGTAA	TGTTAATCTT	660
AGTCACATCT	GTATGATAGC	CTTTTGTATA	GTAAGCCTTG	TACTCAGCCT	GGGTCATCTT	720
ACCAGTCAAC	TTAGCCTTGT	AGTCAAAGAC	TTGGTCAAAC	GTGCCGTCTT	CAAGGAAAGG	780
ATAAACTGAT	TGCCAGTTAC	CTGCATAGTC	ACTCAAGGTG	CGGTCCTTGA	CAGCTGCATC	840
CTCGAAGTAA	CCATTTTGGA	CTGTCTTGGT	ATCCTCTGCC	TTTTCAGGTT	CAATTGCTGG	900

GCCTTCTTGG	TCTGTTGTTT	GTTTCAAAGC	CTTGAGGTTT	TTCTCCATCA	CGGAAATGTA	960
GTTTTCTCCA	GCCTTGGTGT	CCTCTTCTGT	CAGACTTTCT	AAAGGATTGA	GGACATCAGT	1020
TTTGACACCT	GCTTCTTTTG	AAAGTGTGTT	AGCAAGGGCT	TGTGAGGCAT	ТТСТТСАААА	1080
TAGATATAGG	CGATTTTATT	TTTCTTGACA	TACTCTGTCA	ATTCTGCCAA	GCGAGCAGCT	1140
GATGGCTCTG	CATCTGGAGA	AAGTCCTGAG	ATTGCGACTT	GTTTGAGTCC	ATAGTCCAAG	1200
GCAAGATAGT	TAAAGGCTGC	GTGTTGAGTC	ACAAAGCTCT	TTTGTTTTGC	TTGAGACAAA	1260
CCTTCTGCGT	AAGCCTTATC	CAAGGCTTGC	AATTTTTCGA	TATAGGCAGC	TGCATTCTTC	1320
TCAAAGGTCT	CTTTTTTATC	AGGATAATCT	GCTGACAAGC	TGTCGCGGAT	GTGCTCTACT	1380
AGTTTAATGG	CACGAACTGG	TGATAACCAA	ACATGGGGGT	CAAACTCATG	GTGATGACCT	1440
TCTTCTCCAT	GGTCATGGTC	TCCCTCTTCT	TCCTCGCCAC	CTGGCAAGAG	CAACATATCG	1500
CCTGTCGCCT	TGATGGTTTT	CACTTTTTTC	TTATCCAAGG	TATCTAGCAA	TTTAGGTACC	1560
CATGTTTCCA	TGTTTTCATT	ттсаталасс	AAGGTATCTG	CATCTTGGAT	TTTGGCAACT	1620
GCCTTGGCAG	ATGGTTCGTA	TTCATGAGGT	TCTGTCCCAG	CACCGATTAG	GAGTTCTACA	1680
TTAGCCGTAT	CTCCTGCGAC	TTGCTTGGTA	AATTCATAGA	CAGGGTAAAA	GGTTGTCACG	1740
ATATTGAGTT	TACCATCTGC	CTGTTTTTGA	TTGGAACAAG	CCACTAAAAA	CAAGGCACAT	1800
AGACTGGCTA	GTAATAAGCT	AATTTTTTC	ACGTTCGTCT	CCTATTTGAT	AAAACGTCTT	1860
ACTAAACTGA	TTAGTATAAA	GACAGTTACA	AAAATAATGG	TAATACTTGC	ACTTGCAGGT	1920
GTTTCTGCAT	AGTAGGAAAT	GTAAAGTCCT	GCTACCATTC	CCAAAAAGCC	AATCGCACTG	1980
GCAAGCAGCA	TAACCGATTT	AAAGTTTTTC	CCCAGACGCA	GGGCAATACT	AGCTGGCAAG	2040
ACCATAATGG	TCGATACCAG	AAGAGCTCCT	GCTGCAGGAA	TCATAAGGGC	AATAGCCACC	2100
CCTGTCACCA	TGTTAAAAAG	AATGGACATG	GTACGAACTG	GCAAGCCATC	CACAAAGGCC	2160
GTATCTTCGT	CAAAAGTTAA	GATATACATA	GGACGAAGAA	AGAGAAAGGT	CAAAATCAAA	2220
ACAACCGCCG	CAATGACAAA	GAGGGAAATG	ACCTGTTCTT	CACTGATAGT	CACGATCGAA	2280
CCAAAGAGAT	ATTGGTCCAA	ACTCATTGAA	CTCGAGCTTT	TACCCTTGCT	CATGACAATC	2340
AGAGAAACAG	CCAGACCTGT	TGACATGAGG	ATAGCTGTCC	CGATTTCCAT	AAAGCTCTTG	2400
TAAACCGTAC	GGAGATACTC	CAGAAAGACC	GCCGCAATCA	AGACAATGGC	AATAGTAGAA	2460
ACAGTTGGAG	AAATCCCCAA	AACCAGACCA	AAGGCTACAC	CTGAAAGTGA	GACGTGGCTA	2520
AGGGTATCAC	TCATCAAACT	CTGACGACGC	AAGATGAGGA	AGGTTCCCAA	TACCGGTGAG	2580
AAAAGACTCA	TAGCAATAAC	CGCCAAAAAG	GCGCGTTGTA	TAAAGTCGTA	AGATAATAAA	2640

			TU/Z			
CTAAGCATGG	CCCACCTCCT	GGCCATTCTC	ATGAACATTG	AAACAACGCC	ATGGCGAGTC	2700
TTGGTTACGG	ACTAGATGAA	TATTGCGATC	CGCATAATCC	TTAACTTCTT	CAGGGTCATG	2760
GGTAATCATC	AAAACAGCCT	TGCCATGATG	ATGGGCGCTG	TGGTGCATGA	GTTCGTAAAA	2820
ТТСАТТТТТА	CTTCCTGCAT	CCATCCCCGT	TGTCGGCTCG	TCTAGGATAA	ACACATCAGG	2880
GTCAGAAGCA	AACATACGCG	CAATTACCGC	TCGCTGCTTT	TGTCCCCCAG	ATAGAGACCC	2940
CAAGCGTTTG	TCTCGATGTT	CCCACATGCC	AACTGAGTCC	AGACTAGCCT	TGATATGCTC	3000
CTCATCATGA	GCATTCAAAC	GACGGAACCA	GCCTTTTCTC	GGATAGCGAC	CCGACTTGAC	3060
AAATTCATAG	ACCGTACTTG	GAAAACCAGC	ATTAAAACTG	GCAATTTGTT	GAGGAAGATA	3120
GGCTATTCTC	AATTTCTTAC	CTTGCGTATT	TGTCTTTGAA	ATAGCCACCT	TTCCAATGCG	3180
TGGTTGCAGA	ATTCCAAGAC	TAGCCTTGAT	GAGCGTCGTC	TTAGCCGCTC	CATTTTCCCC	3240
AGTCAAGGTA	ACAAATTCCC	CACTATCAAC	ACAATAATTG	ATATGTTCAA	GAACAGGCTC	3300
CTTATCATAA	TAGAAGGACA	AATCCTCTAC	CGTAATATAT	CTCATTATTT	GATTTCTCCT	3360
ACTAAAGCAG	TCAAAAACCG	CTGAATCACT	TTTTGTTCAT	TTGGAGTAAA	CTGAGTCGCC	3420
ACTTGTTCAT	AGGTTAAAAG	TGTATGCTCA	TGGTGATGGT	GGTGCTCCTC	AGCGATTGGA	3480
CGAGCCAAGT	CAGTCAACTG	ATAAAAAATC	ACACGCGCAT	CTTTAGAATC	TTTAGATGTT	3540
TCCAACATCC	CTTCCTTGAC	CAAAGACTTA	ATGGCCTTGG	TAACTGCCGC	CTGACTGACA	3600
TTGAGACGAC	GGGCCAATTC	TGAATTTGTT	AAAGATTCCT	CTGACAAGAG	CATAAGGATA	3660
TGCTCCTGAG	TATTGGTCAG	GGCCACCTCG	CTAGTGCAAT	GACCTATTAG	GATTTCATGC	3720
TGATTTTCCG	CCTGCAAAAT	CACCTCATTC	AAAAAAGCAT	TGATATCCTT	TGCTAGCTGT	3780
CTCATATCTG	ACTCCTTTCC	TTTTAGACTT	CTCTTTTTTA	AGAGAAAAAT	ACTATTCTTT	3840
GACATTTTGT	TTACCAGTTA	ATTATATCAC	AAGCAAAAAA	AGAGTCAAGA	AAAAACGTGA	3900
AAACTAGTTT	CATTCTTGAA	CTCTTCTATA	TTATATTATC	TATTGAAATT	CTTTGACATC	3960
TCCATCATAA	GTCGCCCAAT	CTTTGCTGAA	AAAGCGCTCA	TTCAGATGGT	AAGTCGGAGC	4020
TGGTGTGGGA	TTGGATAGGA	AAGGATCAAC	TGCCTTGTCA	AAAGCCAACC	AACCCAACCA	4080
ACCAAGGTGA	ATGGTGTCCT	TCATAAAGAA	AGGCTCCCCG	CCGTCCTTAG	AAAAATCTGC	4140
TATATTGGTA	AAACCTTGAC	TTTCTAACTG	GTAGCGAATC	TTCTGCACCG	TTTGTTGGTA ·	4200
CATATCCTCT	CGTAGACCAG	CATAGTTCAT	ÇCATTTTTTA	TTAACAGGTG	GAATGATAAA	4260
AATCGGGTTT	ACCTTAGATT	TAGAAAACTG	TGTTAAAACC	AACTGCAAGT	CATTATACTC	4320
TGGCGACTTG	AGATAGGTAA	AGCTTTTCTG	AGAATCCTTT	AATTTCTTCA	AATCCTTCTT	4380
GATCTGCTCA	TTATAGAAAT	AATTTTCCAT	TCCCATCTCA	TTATTGGAAG	TATTTTTTC	4440

AGCATCTGCT	TTGACAACAT	CTTCTATTGC	CTGATAAGAA	AACTGGTCTG	GCAAGATTTT	4500
TAAATACTTA	GCTACATGCT	TATCGTAGTT	AACATAGCCT	CTAACCGAAA	ACTGACCAAA	4560
AAAGGAAGCT	TGGCGTTCAT	TAAAACGAGC	СААТААТТСА	ATCATTTCAT	TGTCTGCTGT	4620
CGACAATTCT	TCTTTACTTG	CCAACTTCTG	AACCAGGTCC	TTCATAGCTA	CCTTTGGGAA	4680
CTGTTGCAGT	AAGCGAGTCG	CTGCATATTG	ACTAGCCTGA	TCCCCAGATT	GATGTTTCAG	4740
AAAACTAGTC	AACTGGTCTC	CATTAAAATA	CTGCTGGAAG	GCTGCTGGAT	CATAGCCATT	4800
TTTACTGAAC	CACTGAGGTG	AGATAACATA	CACAACTTGT	TTATTCTCCA	GCTGTGGTAA	4860
CATCTGTTGC	ATTCCAAAAT	ATTGGTTAAG	CGATGCAGCT	CCCCCCTGTC	CTAAAAGATA	4920
AGGACGGTAG	GAACGATTGT	ATTTCTCAGC	TAATACCGCA	GGATGAGCAC	CGTCAAAACG	4980
AAGCCATTCA	CTAGAGCCAA	AGAAGGGAAC	AAAACGCACA	TTTGGATCAG	ATAGTGCTCT	5040
GACTTTTTGA	CTTCGCTCCT	TAAAACTATC	GATAGTAGTA	GCCACTGCTG	AACGCTTTTC	5100
AGCTCCTAGA	TTATGATGCA	TCTCAGTAGG	ATAAAAGAAA	ATGAGCAGAA	AAACCAACAA	5160
ACCAGCGATC	AAGACCGGTC	CGAAGATCAT	CCATAAGCGT	TTAAGCATTT	TGTAGCTCCA	5220
CAATACCAGC	TATGATTTTA	TTAGCTGTAT	TCCAGTCGTC	ACGACCAAAC	TCTGTTACAG	5280
GGACACGAAT	GTCAAAACGG	TTCTCAATCT	CCACAATCAA	CTCAACCGTT	CCCATACTAT	5340
CCAAGACACC	TGCATCAAAA	AGATCTTCAT	CCATCATGTC	AGAAACATCT	TCCATAAACA	5400
ACTCATCAAT	AATTTCAATA	ACTTCTGATT	TGATATCCAT	ATTTTATTTC	CTTTTATTTT	5460
TTAAACCATA	GATTATTCAA	GAATCCAGAA	AAGATTAAGA	ATGACAACAT	GACAACATGG	5520
AAAGTGACAA	CCATGCCAAG	CAACTGAATC	CAGCGATTCT	CAGGTAGGGC	AGCCTTCCCT	5580
GCTTTTTTCC	GTTCCTTATT	GAGCGTTTTT	TTCTTGCGAA	CCCAGGCATC	ATTGATGACC	5640
AAGCCTAGTC	CATGAAAGAG	TCCATAGGCG	ATATAGTACC	AGGTCACACC	ATGCCAAAAT	5700
CCCATAATCA	GCATATTTAC	AATGTAGGCC	ATGCTTGAGG	TTACATTACG	ATTTTTAAAG	5760
ACTTTCTTTC	TGGTTAACAC	CATCACCATT	CGCATAAAGA	CAAAGTCACG	GAACCAGAAG	5820
GACAGACTCA	TATGCCAGCG	ATTCCAAAAC	TCCTTTAAAT	CCCTTGATAA	AAAGGGCTTG	5880
TTAAAGTTGA	TAGGGCTACG	GATTCCCATC	AAGTTTGAGA	TGGCCAAAGC	AAACATAGAA	5940
TAACCTGCAA	AGTCAAAGAA	GAGTTCCAGA	CCAAAAGTAT	ACATAACTGC	CAAGGCATAG	6000
AGATTAAAGA	AGCCACCTGA	CTGCAAGGCT	AAATTCTTCA	GAGGAGGTAG	TAAGGTCTCT	6060
CCTAAAACAT	GAGCTAGGAT	AAACTTATAC	AAAAAGCCCC	ACATGATATA	GCGGACAGAT	6120
TCATCCAGCA	TATCCATCAA	CTCATCTCGC	TCAGGAATAG	CCTGATAATT	TTCATTAAAT	6180

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CGCTTAAAGC	GATCGATTGG	ACCACTCGAG	1074 AAAGTTGGCA	TGAAGAGAAG	GAAACGGAGG	6240
AATTCCCAGA	GGGTAAAATC	CTTAATCACT	CCATCTCTCA	GCTCGATGAC	AATTCCAACC	6300
GAACGAAAGG	TCAGGTAAGA	AATTCCCAAG	AACCCAAGCA	AAGACTGCGT	TCCATTGATA	6360
GCTGGTTGCA	CCTTGACAAA	GATAATCGGA	AGTAGGGACA	GAAAACTAAC	TAAGTAGAAG	6420
ACCCACTTGC	CATCCTTGCT	TTTTCGATAA	TGCTTGTAGA	AAAGCAGGAG	CAATATTTCC	6480
CAGCAAAGGT	AAATACCCAA	GGCAGCTAGT	TGATTGGTCT	TTCCACCCAC	CAACATGGTG	6540
ACAATAAAGA	AGAGACTTAC	CAACACTTCA	TACCAGGCAA	AGCGTTTCTT	GAAAAAGAGA	6600
CCTATAAAGA	TGGGCAAGGT	TGCAGCAATC	ACATAAACAA	AATACTGAGG	ATTGCCATAT	6660
GGCTCTAAAT	GAGGAAGCTG	TTGAAAAAAC	TCCATCATCT	CTTATTCACC	TCGTTAATCA	6720
ATCCTTTGAT	GTCAATCTTT	CCATTTGGAG	TTAGTGGCAA	ACTGTCTCGG	TAAAGGAATT	6780
TAGATGGCAT	CATATAGGAC	ATCATGATGT	CTGTCAGGTC	TTCCTTGATG	GCCTTGGTAA	6840
TATCGATATC	TCGCTCAAAC	TGCTCACGAA	CACCGTCTTT	TAAGATGACA	TAAGCCAATA	6900
GATTTTGTAC	CTTGTGGTCC	TTGTTATAGC	GCGGTACTGC	GACAGCAGAT	TCGATAAAGC	6960
GAGACTTGTT	GAGGTTTTGA	GAGACATCTT	CTAACTCAAT	GCGGTAACCG	ттааасттаа	7020
TCTGGAAGTC	CATGCGTCCG	CCGTAGAGAA	GCAAGCCCTC	ATCTGTCATG	GTTCCCACAT	7080
CGCCTGTGTG	ATAGGCTGGC	AGATCTTCAA	ACTCAAAGAA	GGCTTCTGCT	GTTTTTTCAG	7140
GATTGTTCAT	ATAACCTTTT	GAAACAGCTG	GCCCAGAAAC	AATGATTTCT	CCCTGCTCAC	7200
CATTTGGCAG	TTTATTTCCT	TCCTCGTCAA	TGATAAAGGT	TGGAGAATCA	GCCTTGGTAT	7260
AGCCGATTGG	TAGGCGTTTG	AGAGTCGCTA	ACATCTCGTC	TGTCACGGCA	ACTGCTGACA	7320
GAGCTACTGT	CGCTTCTGTT	GGGCCGTAAG	CATTGATGAT	ACGGGCATTT	GGGAAACGCT	7380
CGCGCAGTTT	TTGAGCTGTT	TTGACCGTCA	ATTCTTCACC	ATCAAAGTAG	AAATGCGTGA	7440
TTCCAGGCAT	TTTCTCACTG	TTGAAGTATT	CAGACAACAT	GGCCATATCT	GCAAAGGATG	7500
GTGTTGATGT	CCAGATAGCG	ATTGGCAATG	AAAAGATAGC	CGCAAAGAGT	TGCTTAAACT	7560
CCTGAGTGAT	GACTGAAGGA	AGAGTGAAAA	GCGTACCACC	AAGTGCCAAG	GTCGGTGCCC	7620
AATACATGAC	AGACAAGTCA	AAAGAATAAG	GTGGCTGTGC	CAGCATTTGC	GGACGACTCG	7680
GTGTCGCAAA	TTCCTTATCC	GTAATCATCC	AGTTTGTAAA	GCTGAGGAGA	TTATCATGTG	7740
AAATCTGCAC	TCCCTTAGGC	TTACCAGTCG	TACCAGAAGT	AAAGATAATG	TAGTAATTAT	7800
CATCTCCCTT	GACTGGATGC	GTGATTTCAT	AGTTATTCCC	TTGGGCAAAG	GCTTCTTGAA	7860
CCTGAGCTAG	ATTTATCATT	GGTGTAGAAA	CCTGCTCCAA	GGGAAAGGCT	GAAATGGCAA	7920
TAATCAAGCT	TGGCTCTGCT	ACTTCTAAAA	TAGCTGAAAC	TCGCTCCAAG	GCCGAATGGC	7980

TATCA	lattgg	AATGTAGGCA	TGACCTGACT	TAGTCAGCGC	TACAAAGGTT	GCCAACATTT	8040
CATAT	TCTTG	GCCACCAAAA	ACAACCACAG	GAGACTTCTC	AGGCAAGCCT	AGTTGGTCAA	8100
TGACT	GCAGC	CAAACTATCC	GAATCAGCCT	TTAAATCGCC	ATAAGTGTGT	TCCTGCCCCA	8160
AAACA	ATATA	GACAGGATAG	CTAGGCTGTG	TCTGAGCAAA	ATGCTCAATG	GTTTCAATCA	8220
TATCI	GCTAT	TGGTTTATTT	GACACAATAG	GGATTCTCCT	TCAAGTTAAA	ATTCATTATA	8280
GATAA	AGCTT	CCTTGACCCT	GACCAAGATA	GCTAAAGAAG	TAAAGCAGCC	CTAGAAAGAT	8340
AAGAA	AATAC	AAGGCTGTCC	GACCAAGAAA	GAGGTACAAT	TCTTTTCTCT	GTTTCATCAA	8400
GAAAA	ACCAT	TCATTTCTGT	AATTTTTCGC	TAAAATAAGA	GTGATTCTTA	CTAGCTTATT	8460
TTTCT	ACCAT	TGTACCACTT	TATATAGTAT	CTTTTCAATT	GTTTACCGTA	TGTTTCCAAT	8520
AGATT	TCAGC	TTATTTTAAG	GATTATACAG	TTTTTCTATG	ТАТАТТТСА	AATAGAGTGA	8580
TCCTG	CTTCA	AAACTCCATT	TCAGGAGACA	ATGAAGTAAA	TCTTCCCATA	ATAAAACACA	8640
CAATA	TCAAG	TTTTTCAAC	ACCTGATACT	ATGCGCTTTT	CTGATTTTTA	AAGACTTTTT	8700
AACCA	CTCTC	TCATTTAAAA	TAATCTCGTC	TGATATAAAT	TAAAATAGCT	TCTATCATCA	8760
GACAA	ATGGC	TGATAGCCAA	AAACTGATGC	ТААТАССААА	ACTCTCAGTA	ATATAGCTCA	8820
TTAGC	AAAAC	AAATACTGAA	AATGCTAATG	TAGAAATCAC	TTCAAGAACG	GAATAGACAT	8880
TAACT	'AAATG	ATTTTCCTCT	ACTGTTTCCT	GAAGAAATAC	ACTTTCAGGA	ACTTCTTTTA	8940
GTTGC	GATAA	CATACCAACT	AAAGCTGAAA	АТААТАААА	CATCTGTGCG	TTTGGAAAAT	9000
ATAGA	ATAGT	CAGTGTCACT	ATTTCCATAG	CTACAAGAGG	AAAAAGAATA	CTTTCCCCCC	9060
AAATC	ATTCA	TACCTCTCTC	AACTAGATGT	AACTTACAAA	ACCCCTGACC	TCATGAGCCA	9120
CTTTC	TTCCT	CCTCATGAGG	TCAGTTTTAC	TTTCTGCTGT	TCCAGTATCG	TTTTTCCTCG	9180
CTAGA	TTTCC	TCAAAAGGGC	AGACTCCTCC	CTTGGTGCGT	CACACGATTT	TTTCATCTCG	9240
ACTGT	тсттт	AATGCATCAT	TAACGACGCT	TTTCTTCTAG	GTGGTTCATA	AGGAACAGGA	9300
AGATT	CAGGT	TGACTTTTCT	AATCCTAGAA	TAAAGTGCTG	AAAACAATTC	GGAATAGGCA	9360
ragag	ACTAG	ACAATTTGAG	GAGCTGCTTG	CGTCCTGTTC	GAACACATTT	TCCCACCACG	9420
rgaag	AAAAA	GATGGCGGAA	GCGTTTGATT	GTTAAAGTTT	GGAAGTCACC	TCCAGCTAGA	9480
rgttt	GAGAA	AAAGATAGAG	ATTGTAGGCG	ATACAGCTCA	TCATCATACG	AACTTCGTTT	9540
PTGAT	TAAGG	TTGAACTATC	CGTTTTATCG	ССААААААТС	CCTCCTTCAT	CTCCTTGATG	9600
TTAAA	CTCGG	CTTGACCACG	TCCACGATAA	AGCTGAAACT	GGTCTTGGcT	gTTCCACTCG	9660
rcata	TTTGT	AACGAGAGAA	ATAACATCGT	AGAACAAGTA	TCCTTCTTTT	с	9711

(2) INFORMATION FOR SEQ ID NO: 168:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 3025 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 168:

CCCCTTTGTC	AAAACTGTAA	AATTAACGAC	TCAACAATTC	ATCTTTACAC	CAATCTCAAT	60
GGAAAACAAA	AACAAATTGA	CCTCTGTCAA	AACTGCTATA	AGATTATCAA	AACAGATCCT	120
AACAATAGCC	TCTTCAAAGG	TATGACGGAT	CTGAACAATC	GTGACTTCGA	TCCCTTTGGT	180
GATTTCTTCA	ATGATCTAAA	CAATTTCAGA	CCTTCTAGCA	ATACTCCTCC	TATTCCCCCA	240
ACCCAATCAG	GTGGAGGTTA	CGGTGGAAAC	GGCGGTTATG	GTTCCCAAAA	TCGTGGATCT	300
GCTCAAACTC	CGCCACCTAG	CCAAGAAAA	GGCCTGCTGG	AAGAATTTGG	TATTAATGTA	360
ACTGAAATTG	CCCGTCGTGG	AGACATTGAC	CCCGTTATTG	GGCGCGACGA	TGAGATTATC	420
CGTGTCATCG	AGATTCTCAA	TCGTAGAACC	AAGAATAATC	CTGTCCTTAT	CGGTGAACCT	.480
GGTGTCGGAA	AAACGGCCGT	TGTCGAAGGT	CTAGCTCAGA	AAATTGTCGA	TGGCGATGTG	540
CCACATAAAC	TCCAAGGTAA	ACAAGTCATC	CGTCTGGATG	TGGTTAGCTT	AGTTCAAGGA	600
ACGGGGATTC	GAGGACAATT	TGAAGAACGC	ATGCAAAAAC	TCATGGAAGA	AATTCGCAAA	660
CGTGAAGACA	TCATCCTCTT	TATCGATGAA	ATCCATGAAA	TTGTTGGTGC	TGGTTCTGCG	720
AGTGATGGTA	ATATGGACGC	AGGAAATATC	CTCAAGCCAG	CCCTTGCTCG	TGGAGAACTG	780
CAACTAGTCG	GTGCTACTAC	CCTCAATGAA	TACCGTATCA	TTGAAAAGGA	TGCTGCCCTC	840
GAGCGTCGTA	TGCAGCCTGT	TAAAGTCGAT	GAACCAACGG	TGGACGAAAC	AATCACTATT	900
CTCAAAGGGA	TTCAAAAGAA	ATACGAAGAT	TACCACCACG	TTCAATATAC	AGATGCTGCG	960
ATTGAAGCAG	CTGCAACTCT	TTCCAATCGC	TACATCCAAG	ATCGCTTCTT	GCCTGACAAG	1020
GCCATTGACC	TCCTAGATGA	AGCTGGTTCT	AAGATGAACT	TGACCTTGAA	TTTTGTGGAT	1080
CCTAAAGTAA	TTGATCAGCG	CTTGATTGAG	GCTGAAAATC	TCAAGTCTCA	AGCTACACGA	1140
GAAGAAGATT	TTGAGAAGGC	GGCCTACTTC	CGCGACCAGA	TTGCCAAGTA	TAAGGAAATG	1200
CAAAAGAAAA	AGATCACAGA	CCAGGATACT	CCTAGCATCA	GCGAGAAAAC	TATTGAGCAC	1260
ATTATCGAGC	AGAAAACCAA	TATCCCTGTT	GGTGATTTGA	AAGAGAAAGA	ACAATCTCAA	1320
CTCATCCATC	TAGCCGAAGA	TCTCAAGTCT	CATGTTATTG	GTCAAGATGA	TGCAGTCGAT	1380
AAGATTGCCA	AGGCTATTCG	CCGTAATCGT	GTCGGACTTG	GTACCCCTAA	CCGCCCAATC	1440

1077

GGAAGCTTCC	TCTTCGTTGG	GCCAACTGGT	GTCGGTAAGA	CAGAACTTTC	CAAACAACTG	1500
GCTATCGAAC	TTTTTGGTTC	TGCTGATAGT	ATGATTCGCT	TTGATATGAG	TGAATACATG	1560
GAAAAACATA	GTGTGGCTAA	GTTGGTCGGC	GCTCCTCCAG	GTTATGTTGG	CTATGATGAG	1620
GCTGGTCAAT	TAACTGAAAA	AGTTCGCCAC	AATCCATATT	CTCTCATCCT	TCTCGATGAA	1680
GTGGAAAAAG	CTCACCCAGA	TGTTATGCAC	ATGTTTCTTC	AAGTCTTGGA	CGATGGTCGT	1740
TTGACAGACG	GGCAAGGACG	CACCGTTAGC	TTCAAGGATG	CCATCATTAT	CATGACCTCA	1800
AATGCAGGTA	CAGGAAAGAC	CGAAGCTAGC	GTTGGATTTG	GTCCTCCTAG	AGAAGGACGT	1860
ACCAATTCTG	TCCTCGGTGA	ACTCGGTAAC	TTCTTTAGCC	CAGAGTTTAT	GAACCGTTTT	1920
GATGGCATTA	TCGAATTTAA	GGCTCTCAGC	AAGGATAACC	TCCTTCAGAT	TGTCGAGCTC	1980
ATGCTAGCAG	ATGTTAACAA	GCGCCTCTCT	AGCAACAACA	TTCGTTTGGA	TGTAACTGAT	2040
AAGGTCAAGG	AAAAGTTGGT	TGACCTAGGT	TATGATCCAA	AAATGGGAGC	ACGCCCAcTT	2100
CGTCGGACTA	TTCAAGACTA	TATTGAGGAC	ACAATCACTG	ACTACTACCT	TGAAAATCCA	2160
agcgaaaaag	ATCTCAAAGC	AGTTATGACT	AGCAAGGGAA	ACATTCAGAT	TAAATCTGCC	222 0
AAAAAAGCTG	AAGTTAAAAG	TTCTGAAAAA	GAAAAATAAA	ТССТАТАААА	AAGGAGTAGA	2280
AAATGAAATT	TTTCTGCTTC	TTTTTTTACT	AAAATAACTG	TAATTTCTTG	ACAGCTTGCC	2340
CTTTGTCCAT	TATGATATAT	AGTAGACTGA	ATCTGAAATA	GTACGAAACA	ATTGCTAAAA	2400
CATTTATAGA	AATTAATTTT	ACTTTCCCAA	TCGATTTGTT	CTCATCTTAT	TTCAATCTGC	2460
TATAGTCAAT	TGAAACAAGA	ACAAGACAAA	AGAGCCTCAT	AAAAGGTATT	GCAACTTGGT	2520
AATACCTTTT	TGAGGTGCTT	TTTGATATGA	GCCCATGTTT	TCTCAATAGG	ATTGTACTCA	2580
GGTGAGTAGG	GAGGAAGAGG	TAAAAGTTTA	TACCCAAACT	CTTCACACAA	GAGTTCTAAC	2640
TTACCCATTC	TATGGAATCT	TGCATTATCC	ATAATAATAA	CCGATGGTGT	GGTTAATGTT	2700
GGTAAGAGAA	ACTTCTGAAA	CCAAGCTTCA	AAAAAGTCGC	TCGTCATCGT	CTCTTCGTAA	2760
GTCATTGGAG	CGATTAACTC	ACCATTCATT	TGTTAGACCT	GCAACCAAAG	AAATTCTCTG	2820
ATATCTTCTT	CCAGATACTT	TGCCTCTTCT	TAACTGACCT	TTTAATGAGC	GACCATATTC	2880
TCGATAAAAA	TAAGTATCGA	ATCCTGTTTC	GTCAATCTAA	ACAGGTGCTA	GGTGCTTTAA	2940
АСТАТТАААА	TTCTTAAGAA	ATAAGGCTAC	TTTTTCTGGG	TCTTGTTCAT	AGTAGGTGTA	3000
GTTCTTTTTT	TTTTCGAGTG	TAGCC				3025

(2) INFORMATION FOR SEQ ID NO: 169:

⁽i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 4104 base pairs

1078

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 169:

TTTAAGGTTT	TAAAAAAAGT	TTTCGAAAGG	TTTCTTCTTT	ATTTTTTAAG	GGAGAGATAA	60
CGTTGATATC	TAAATCGTGG	TCAAAGCCGG	CAATTTTTCC	TTTAGATGTG	TATTGGTGAA	120
TATCATAATC	TAAATCAGTT	TTAGGACTGC	ТСТССААААА	TCCTGAGTCT	GAGCCGTAGA	180
CGGAATCCAA	ACAGAGGTAA	ACTTGCCTGT	ATCAATACTG	TGTTCTTCCA	TGAAGTAGAC	240
ACCAACGTAG	ATGCCGATGT	TTTTAGCACC	CAGTGATGCT	AGTTTTGCTC	GAAAGTTTTC	300
GACACCTTCG	TTCATATTAG	ACATGGTTTT	GTCTTCCACG	TCAAGCCAAT	AGTAACTAGG	360
GCTGTAAGGA	GAGGCAGCAT	TGTAGAAAAC	TTCGGCAGCC	TTTTCCATTT	CTTGGACACT	420
TTTTCCAGCT	ACATAAGCGT	AGACAGCAAC	TGGGACATTC	CGCTTTTGAA	GTTCAGTGAT	480
ATGACTCTTA	TAGGCCTTGT	CTATTCCATT	GATAAATGAA	GCATCATTTT	CTTTTGTCGT	540
TTGAGCACCA	CTGTGAACAC	GAACAATAGC	ACCTGAAATA	TTTTGTGAGA	GGGCATCGTA	600
GTTGATTTCC	TCAGGACGCT	GCCAGCCAGA	GAGGTCAATA	ATCGGTTTGT	CTAAGTGTTT	660
CAAAGCCTGT	GCTTCAATCT	GTGCTATATT	GGATTTTGTT	TTAAACGATT	GGCTGTCATT	720
AAGTGGGCGA	TTGATGATTA	AAATGAACAT	CATAATCCCA	алаааастаа	ATAAAATAAG	780
TGGATGAATT	TGTTTTCTCA	ТАТСТТАТАА	TTCTACCCTA	AAAATCAAAA	ААААТСАААА	840
AAATGGGTTA	AGGAAGAGAC	TTTAGAGCAT	TTTTTCATTC	AAGAGTGCGG	AATGATTTGA	900
AATATGGTAT	AATAAAAGGG	AATTTCTACA	GAAAAGAGAA	GATTATGTCA	AATTTTGCCA	960
TTATTTTAGC	AGCGGGTAAA	GGGACTCGCA	TGAAATCTGA	TTTGCCAAAA	GTTTTGCACA	1020
AGGTTGCGGG	TATTTCTATG	TTGGAACATG	TTTTCCGTAG	TGTGGGAGCT	ATCCAACCTG	1080
AAAAGACAGT	AACAGTTGTA	GGACACAÁGG	CAGAATTGGT	TGAGGAGGTC	TTGGCTGGAC	1140
AGACAGAATT	TGTGACTCAA	TCTGAACAGT	TGGGAACTGG	TCATGCAGTT	ATGATGACAG	1200
AGCCTATCTT	AGAAGGTTTG	TCAGGACACA	CCTTGGTCAT	TGCAGGAGAT	ACTCCTTTAA	1260
TCACTGGTGA	aagcttgaaa	AACTTGATTG	ATTTCCATAT	СААТСАТАЛА	AATGTGGCCA	1320
CTATCTTGAC	TGCTGAAACG	GATAATCCTT	TTGGTTATGG	ACGAATTGTT	CGTAATGACA	1380
ATGCTGAGGT	TCTTCGTATT	GTTGAGCAGA	AGGATGCTAC	AGATTTTGAA	AAGCAAATCA	1440
AGGAAATCAA	CACTGGAACA	TACGTCTTTG	ACAACGAGCG	TTTGTTTGAG	GCTTTGAAAA	1500
АТАТСААТАС	CAATAACGCT	CAAGGCGAAT	ACTATATTAC	AGACGTCATT	GGTATTTTCC	1560

GTGAAACTGG	TGAAAAAGTT	GGCGCTTATA	CTTTGAAAGA	TTTTGATGAA	AGTCTTGGGG	1620
TAAATGACCG	TGTGGCGCTT	GCGACAGCTG	AGTCAGTTAT	GCGTCGTCGC	ATCAATCATA	1680
AACACATGGT	CAACGGTGTT	AGCTTTGTCA	ATCCAGAAGC	AACTTATATC	GATATTGATG	1740
TTGAGATTGC	TTCGGAAGTT	CAAATCGAAG	CCAATGTTAC	CTTGAAAGGG	CAAACGAAAA	1800
TTGGTGCTGA	GACTGTTTTG	ACAAACGGTA	CTTATGTAGT	GGACAGCACT	ATCGGAGCAG	1860
GAGCGGTCAT	TACCAATTCT	ATGATTGAGG	AAAGTAGTGT	TGCAGACGGT	GTGATAGTCG	1920
GTCCTTATGC	TCACATTCGT	CCAAATTCAA	GTCTGGGTGC	CCAAGTTCAT	ATTGGTAACT	1980
TTGTTGAGGT	GAAAGGATCT	TCAATCGGTG	AGAATACCAA	GGCTGGTCAT	TTGACTTATA	2040
TCGGAAACTG	TGAAGTGGGA	AGCAACGTTA	ATTTCGGTGC	TGGAACTATT	ACAGTCAACT	2100
ATGACGGCAA	AAACAAATAC	AAGACAGTCA	TTGGAAACAA	TGTCTTTGTT	GGTTCAAATT	2160
CAACCATTAT	TGCACCAGTA	GAACTTGGTG	ACAATTCCCT	CGTTGGTGCT	GGTTCAACTA	2220
TTACTAAAGA	CGTGCCAGCA	GATGCTATTG	CTATTGGTCG	CGGTCGTCAG	ATCAATAAAG	2280
ACGAATATGC	AACACGTCTT	CCTCATCATC	CTAAGAACCA	GTAGGAGCCT	ATCATGGAGT	2340
TTGAAGAAAA	AACGCTTAGC	CGAAAAGAAA	TCTATCAAGG	ACCAATATTT	AAACTGGTCC	2400
AAGATCAGGT	TGAATTACCA	GAAGGCAAGG	GAACTGCCCA	ACGGGATTTG	ATTTTCCACA	2460
ATGGGGCTGT	CTGTGTTTTA	GCAGTAACGG	ATGAACAAAA	ACTTATCTTG	GTCAAGCAGT	2520
ACCGCAAAGC	TATCGAGGCT	GTCTCTTACG	AAATTCCAGC	CGGAAAATTG	GAAGTAGGAG	2580
AAAACACAGC	CCCTGTGGCA	GCTGCCCTTC	GTGAATTAGA	GGAAGAAACA	GCCTATACAG	2640
GGAAATTAGA	ACTCTTGTAC	GATTTTTATT	CAGCTATTGG	CTTTTGTAAT	GAGAAGTTAA	2700
AACTATATTT	AGCAAGCGAT	TTGACAAAAG	TGGAAAATCC	GCGTCCGCAG	GATGAGGATG	2760
AAACCTTGGA	AGTCCTTGAA	GTGAGCTTAG	AAGAAGCGAA	AGAATTAATC	CAATCAGGTC	2820
ATATCTGTGA	TGCCAAGACA	ATTATGGCTG	TTCAGTATTG	GGAGTTGCAG	AAAAAATAGA	2880
GGAGGTCAGT	ATGGGTAAAT	CTTTATTAAC	GGATGAAATG	attgaaagag	CTAATAGAGG	2940
CGAAAAAATT	TCAGGTCCTC	CTTTGCTAGA	TGATAATGAG	Gaaactāaga	TTTTACCAAC	3000
CTCTTCTTCC	CGTTTTGGTT	ATGCCAATCC	TAAGGATCAT	GGTTTTAGCC	AGGAAACCTT	3060
GAAGATTCAG	GTCGAACCAT	CTATTCATAA	AAGCCGTCGT	ATTGAAAATA	CCAAGAGAAA	3120
TGTCTTCAAT	TCTAAGTTGA	АТАААА ТСТТ	ATTTGCGGTC	ATCTTTCTCT	TGATTTTGCT	3180
TGTTTTAGCA	ATGAAACTTT	TGTAATAGAA	aaggaattga	AATGAAAATA	GGAATTATTG	3240
CTGCTATGCC	AGAAGAACTG	GCTTATCTGG	TCCAGCATTT	AGATAATGCC	CAGGAGCAAG	3300

			1080			
TTGTTTTTGG	GAATACCTAT	CATACAGGAA	CCATTGCTTC	TCATGAAGTC	GTTCTTGTAG	3360
AAAGTGGAAT	TGGTAAGGTC	ATGTCTGCTA	TGAGTGTGGC	GATTTTGGCT	GATCATTTCC	3420
AGGTGGATGC	CCTTATTAAT	ACGGGTTCAG	CTGGGGCAGT	AGCAGAAGGT	ATCGCTGTTG	3480
GGGATGTCGT	GATTGCTGAC	AAATTAGCCT	ATCATGACGT	GGATGTCACA	GCTTTTGGCT	3540
ATGCTTATGG	ACAAATGGCG	CAACAACCGC	TTTATTTCGA	ATCAGACAAA	ACCTTTGTTG	3600
CTCAAATCCA	AAAGAGTTTA	TCTCAATTGG	ACCAAAACTG	GCATCTTGGT	TTGATTGCTA	3660
CAGGAGATAG	TTTTGTTGCA	GGAAATGACA	AGATAGAAGC	GATTAAGTCC	CATTTCCCAG	3720
AAGTTTTAGC	CGTGGAGATG	GAGGGGGCAG	CTATTGCTCA	AGCAGCGCAT	GCCCTCAATC	3780
TCCCAGTCTT	AGTCATCCGA	GCTATGAGTG	ACAATGCCAA	CCATGAAGCA	AACATCTTTT	3840
TTGATGAGTT	TATTATCGAA	GCTGGACGTC	GCTCTGCCCA	AGTCTTGTTG	ACCTTTTTGA	3900
AGGCTTTAGA	TTAAGCGGAA	ATTTGACAGT	TTTTCTAGCT	TATGATAAGA	TTTAAGTAAA	3960
GAAAAGCTAG	AAAACGTTTC	AGAGGATATT	ATGAGTATTG	AAATGACCGT	CAGTGAGATT	4020
GCAGAGGTCT	TAGGATTATC	TCGCCAAGCA	ATCAATAACC	GTGTCAAAGA	ATTACCAGAA	4080
GAAGACACAG	ATAAAAATGA	CAAG				4104
(2) INFORMA	TION FOR SE	O ID NO: 17	70:			

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 8876 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 170:

CACGGATAGG	CTCGGCTTTC	ATCAGTCCTC	AGGCTGATTT	ACTAATAGCA	ACTTTCCTCG	60
ACAAAGTCCA	CAGCGATACG	TnTGGGTATC	AATCCTACGC	TTACGCTGAT	ACCTTTGCTG	120
GCAGGATTGG	CAACGATAGA	GCTTGATTGG	CTTGGAGTTA	CTATTGGGCA	AGGATGGTAC	180
AAACCGTAAT	CCATCCACTG	CTTTCAACAG	ТТССТТАААА	TCCCGATCCT	TGTGTTGATA	240
GCCTTTCCCT	TGAAAATAGA	GGTGATAATG	ACAGAGTTCA	TGTCGGACAA	TTTTCCTAAA	300
AACGTCCAAC	CCCAGTTCCT	GATAAACCTT	GGGATTAAAA	TCCAAATGCC	CATCTTTGGG	360
GAAAAATCGC	CCACCTGTCG	AACGTAGACG	CCTATTCCAC	TGGACATGAT	GGATAAAAGG	420
TCTGCCGAAG	TCTTCTAGTG	AAACCTGCTT	GACGTAATCA	GTCAGTTTCA	TTTGGAGCTA	480
GGAGAGACAG	ATTAACTTTT	TCACGTTCAG	TATCAATTT	CTTAACCCAA	ACGCTCACCA	540
AATCTCCAAC	TGCCACCACT	TGACTAGGGT	GTTTGATAAA	CTTGCGACTC	ATATGGGAAA	600

TATGGATGAG	ACCGTCCTCA	TGAATTCCGA	TATCAACAAA	AGCACCGAAA	TCAACAACGT	660
TACGCACCAC	TCCTTCTAGC	TTTTGTCCAA	CCACTAAGTC	CTTGATATCT	AGGACATCTT	720
GGCGAaCACA	GGTGCGTCAA	AGGAATCACG	GAAATCTCGA	CCTGGTTTGA	GAAGATCTGC	780
AATGATATCT	TTAAGAGTTT	CTGGACCAAG	GTCTAACTCT	TGCGCCATTT	CCTTGACTGA	840
AAGCGACTTG	AGTTTGCTTT	GGGCTTCTTC	GTTTAGGTCT	ТТААТАТСТА	AACGTTTGAA	900
GAGTTCCTTA	ACTGCAGTGT	AATTCTCTGG	GTGAACTCCT	GTATTATCAA	GGATATTGCT	960
ACTTTCAGGG	ATACGAAGGA	AACCAGCAGC	CTGCTCAAAG	GCCTTGGCTC	CCAGACGAGG	1020
AACTTTCTTG	ATTTGGGCGC	GTGAAGTGAT	TTTTCCTTCT	TCCTCGCGGT	ATTTGACAAT	1080
ATTTTCAGAG	ATAGTTTTGT	TGAGTCCAGC	TACGTGTGAA	AGAAGAGCTG	GGCTAGCTGT	1140
ATTGACATTG	'ACACCAACTT	GGTTAACCAC	TGTATCGACA	ACAAAGTCCA	GACTCTCAGA	1200
TAGTTTCTTC	TGACTGACAT	CGTGTTGGTA	TTGACCGACA	CCAATTGACT	TAGGATCGAT	1260
тттсассаат	TCCGCAAGAG	GATCTTGCAA	ACGACGGGCG	ATAGAAATGG	CAGAGCGTTT	1320
TTCAACGGTC	AAGTCTGGAA	ACTCCTGACG	AGCAAGTTCG	CTGGCAGAAT	AGACAGAAGC	1380
ACCACTTTCA	TTAACGATAA	CATAGCTGAC	TTCAGGGAAA	TCTTTCAGAA	CTTCCGCTAC	1440
AAAAGCTTCA	CTTTCACGAC	TGGCCGTTCC	ATTTCCAATG	GCAATAATCT	CTACACCGTA	1500
TTGACCAATT	AAATCTGCTA	AATCTTTCTT	GGCTTCTTCG	ATTTGACGAG	CTGATGCTGG	1560
TTTAACAGGA	TAAATAACCT	GAGTTGTCAG	CATTTTTCCT	GTTGCATCCA	CGACAGCTAG	1620
CTTGGCACCT	GTACGAAAGG	CTGGGTCAAA	TCCAAGAACC	ACGCGCCCTT	TCAGTGGAGC	1680
AACCAAGAGG	AGATTGCGCA	GATTGTCAGA	AAAAAGTTGG	ATAGCTCCTT	CTTCAGCTTT	1740
CTCAGTTAAT	TCTGTCCGAA	TACGACGCTC	GATAGCAGGC	AAGACCTTTT	TCTTAACGGA	1800
TTGCTGAACA	ACTTCATCAA	TATAAGCATT	TTTCACCTTG	AAACGAGTAG	CAAAGAAGGC	1860
AAGAATACGG	TCCGTCGCAT	GTTCAAAACC	GATCTTCAAG	ACACCAAGTT	TCTCCCCACG	1920
ATTGAGAGCC	AAGGTACGAT	AGCCTTGCAT	AGTTCCAACT	GTCTCTGAAA	AATCATAATA	1980
AATCTGAAAA	ACCTGCTTTT	CATCAAGACT	TTCATCCTTG	GCTTGAGAAG	TAAGTTTAGA	2040
GTGTCTCAGC	ACTTCCTGAT	AAGTCATAGA	ACGCAAGGTC	ACATCTTCCG	ATAAGGCTTC	2100
GACCAAAATA	TCAACTGCAC	CGGTCAAGGC	TTCCTTGCCA	GTCGCAAATC	CTTCACAGAC	2160
GAACTTTTCA	GCTTCTTTCT	CTAAGTCAAC	TATATTCTGC	AAAATCAAGC	GAGCAAGAGG	2220
AAAGAGTCCA	GCTTCACGGG	CAATGGTTGC	CTTGGTACGA	CGCTTTTCCT	TATAAGGAAG	2280
ATAGAGTTCT	TCAACGTCTG	CTAATTTTTC	GGCAACTAAG	ATAGCTTCTT	CCAATTCCTT	2340

			1082			
GGTCAACTTA	CCTTGTTCTT	GAATCTTAGC	TAAGACAGCT	TCCTTACGGT	CATTGAGATT	2400
TGTCAGACTT	ТТАТССАААТ	CAATAATAGC	CTTAATCGCC	ACCTCATCCA	GACTACCAGT	2460
CATGTCCTTG	CGATAACGCG	CGATAAAGGG	AATAGTCGCC	CCTTCAGCTG	TCAAACTTAG	2520
AACGGTATCA	ATTTGCTTTA	ACGTCACTCC	CAAATCCTGA	GAGATTTTTT	CATATTTTTT	2580
ATCCATAAAT	CTATTATACC	ACAAGCTAAA	CGTTTCAAAT	TAACTCGTAG	AACATTTAAA	2640
AAATATGTAG	GAAATAGATT	TATATGCTAC	AGCGCAATAA	CTTGCACTTA	AAGAGCATTG	2700
CCACCTTTTT	TTAACCAAGC	CATGATATCA	AAAGTATTTA	ATGGATCAGA	CATAATAGCC	2760
AGTTCTGGAA	GATGTTCCTG	ACCTGGAATA	ACACATTGAC	TTTTCAAATT	TTTATATGGA	2820
CGATTGACTA	AAATTAATTT	ATTAGAATAA	GGAAGATTAT	CCATCTTATT	TAAAATTTCT	2880
TCACTAGCTG	AATCTTTATT	ATCAAATTTA	Aaataaagat	TATTCCAATT	TATGCGTTTT	2940
TTTCTTTTT	CCCACTTAGT	TCGTGCTTCT	TCAATACTAG	AATAATGTAG	AAAATGAATA	3000
TCTATATCTC	CTAAGTGCCC	CAAAGGATAA	ACTTCATGAG	TCCAGCTCGG	TGAAATAAGT	3060
TCCTCTTCGA	AAACAAGTTC	TTGTTCCATA	TAATAACGAA	AATGCTTTGT	AAGTTTATAA	3120
TAATCATCAG	GAAGAATAAA	TAAACCAACA	AAAGGTGTTC	ТАТАТТСААА	ACCAAGCTGT	3180
ATTAAATTT	ATCCTCCAAC	ACAATTATTA	CTTATAATCG	ТААААТСТАА	TCTATCAAGC	3240
TCAAGAAAAG	GGAAAATTCC	TTTCTCTGCA	GCTATTAACT	TATGATAAAC	AATATCAGAA	3300
TCTAAATATT	CACCGTCATT	TTTTAACCAA	GCACTAAAAT	TTGCCAATTC	TTGAATATAT	3360
TGTTTTTTCG	CTCTTTCTAT	ATCATAGTTT	TCTAAGACGG	CGCAATCTTT	GATTCTATTT	3420
TCATAATTTT	CTAATATGAT	TTTGTAGGAG	TCTTTTAGAG	GTTTAGCATC	TATAACAGGT	3480
TTATAGATAT	ATGTCGGGAA	ATTAATATAG	GTTGCAGTTT	TAGAGTGAAT	ATAAAGTCTC	3540
CAAATAAGGT	TGTTTATATC	AAATTGATTT	ATTTTTCGTA	AAAGCTTACT	ATTGAATAAT	3600
TTTCCAAATA	ATGAGCGATA	TTGTTTTCTA	ATTCGATGAT	CTGTATCATC	CATCTTTTGT	3660
AAAACTTGAA	CATTCGTTAA	ATTTTCTGTC	AACCAATTAT	CCCCCAAAA	AGGATAAAAG	3720
таладтастс	CATCAACCAA	ATCAGCAAAA	TGACCAAGAA	CAACATCAGA	ATCGGATAAT	3780
TTTATCGCAT	GATACATCTT	TTCAAATGTC	СААТСАААТА	ATGAATCATT	TGAAGATAGA	3840
AACGTAATAT	AATCTCCTGT	AATCATATCA	GACAACTCAG	CAAAAGAATT	СТСАТСТАТА	3900
АТСТТААТАТ	TAAATGATAG	ATTCATCTGT	TGGCTAATGG	AAGCTATCTC	CTCTGTAGAT	3960
TGATTTACAA	TAATAACTTC	TATATCTTTT	AATGTTTGTC	TCTCCACTAT	TGACAAAGAC	4020
TCTAATAAAC	TATTTTTATC	TCCTTGATGT	AACAAAACAA	CACTAATTGA	GTAAGTCAGT	4080
TTGACTACCT	CCCATAATTT	TCTGATAATG	ATTTTCTTTT	TATTTAATTA	TAGCACAATT	4140

ATGATATAT.	A TCAGGTAATA	TCAAGCTATA	TTATCTCTTA	GCTACTCAAT	TTGAAATTTT	4200
AACTTTTCC	C TTTTCCGCAA	AATAATAGTA	TAATAGAGGT	AGAATCTAGA	ATCGAGGTAC	4260
ACCTATGGC	т стсаааттта	CAAAACGAGA	CGACTTGGAC	AAGATGTTTG	AAGAGTTTGC	4320
TAAACTCCC	T GATTTGAAAC	AAGTTACTTT	CCCTGATGAC	AAAGAGAAAA	AAGTCAAAGC	4380
AGAAAAGAA	A AACTAGATGA	CTGCTTTTCA	ACAACTCCCA	TCTAGTGTAC	TTCAAACTGG	4440
AGCCATTTT	T CTCTCCATTA	TCATTGAAGC	CCTTCCCTTC	GTTCTGATAG	GAAGCATTGT	4500
CTCAGGGCT	G ATTGAAGTTT	ATATCACACC	TGACAAGGTT	TATCATTTTC	TCCCTCGAAA	4560
TCGTTGGGG	G AGAATCTTTT	TTGGGACCTT	TGTCGGTATA	CTTTTCCCTT	CTTGTGAATG	4620
TGGAATCGT	C CCCATCATCA	ATCGTTTTCT	GGAAAAAAAG	GTTCCAAGTT	ACACGGCCGT	4680
TCCTTTTCT	T GTGACAGCAC	CTGTTATCAA	TCCCATTGTT	CTTTTTGCGA	CCTATTCTGC	4740
CTTTGGCAA	C TCCTTCCATG	TCGCCCTATT	ACGAGCTCTG	GGTTCCATTC	TTGTGGCTGT	4800
AATACTAGG.	A ATTTTTCTAG	GATTTTTCTG	GCAAGAACCG	ATTCAGAAAG	AAAATCGTCT	4860
GGCTTGTCA	T GAGCATGATT	TTTCTTACTT	GAGTTCTGCA	AAAAAAGTTT	TTCAAGTCTT	4920
TGTGCAGGC	C ATTGATGAAT	TTTTTGATAC	GGGGCGTTAT	TTGGTATTTG	GCTGCCTCTT	4980
TGCTTCTAT	A ATACAGGTCT	ACGTTCCGAC	TCGGATTCTG	ACCTCTATCA	GTGCGACCCC	5040
TCTTTTTGC	C ATCCTGCTCT	TGATGATTTT	AGCCTTTCTT	CTTTCGCTCT	GTAGTGAGGC	5100
GGATGCCTT	r ataggtgctt	CTCTTCTCTC	GAGTTTCGGT	TTGGCACCAG	TTCTGGCCTT	5160
TCTCGTCAT	r GGTCCAATGC	TGGATATCAA	AAATATTCTC	ATGATGAAAA	ATTACTTGAA	5220
AGCACGATT	r atcagtcact	TCATAACAAT	TGTAACTCTT	GTCGTCTTAG	TCTATTCTCT	5280
CTTGATTGG	A GTTATCCTAT	GATTCGATTT	TTAGTTTTAG	CTGGCTATTT	TGAACTGACT	5340
ATTTACCTC	C ATCTGTCGGG	CAAACTAAAC	CAGTACATCA	ACATGCACTA	TTCCTATCTG	5400
GCCTATATC	r ccatggtgct	TTCTTTTATC	TTGGCTATCG	TTCAATTGTA	TATCTGGATG	5460
AAGCAAGTC	A AAACCCACAG	TCATCTGAAC	AGCCGATTAG	CCAAGATAAC	GAGTATTTCT	5520
CTTCTGGCT	A TTCCACTTGT	CATCGGCTTA	ACTTTCCCAA	CTGTTAGCTT	GGATTCTCAG	5580
ACTGTTTCT	G CTAAAGGTTA	TCATTTCCCC	CTATCGGAAG	GAACGGATCT	AGCCATTCAG	5640
ACAAGCGAA	G GGACGACAAG	CCAATATTTG	AAACCAGATA	CCAGTTCTTA	TTTTTCAAAA	5700
PCAGCCTAT	G AAAAGGAAAT	GCGAACGGCG	GCGGATAAAT	ACTTATCCCA	AGATAGTATT	5760
CAGATCACT	A ATGAAAACTA	TATGGAAGTC	ATGGAGGCTA	TCTACGACTA	TCCAGATGAG	5820
PTTGAGGGC	A AGACAATCCA	GTTTACAGGC	TTTGTCTATA	ACGACCCCAG	TCATGCCAAT	5880

			1084			
AGTCAATTTC	TGTTCCGATT	CGGCATTATC	CACTGTATCG	CAGATTCTGG	TGTCTATGGA	5940
TTGCTGACCA	AGGGCAATAC	CCGGCAGTAT	GAAAACAACA	CTTGGATAAC	AGCCAAAGGA	6000
AAACTGGTCA	ATCACTACCA	TAAAGAACTC	AAACAAAACC	TTCCAACCTT	GGAAATCGAC	6060
AGCTTTACCA	AAGTCGATAA	ACCAGAAAAT	CCCTATGTAT	ATAGAGCTTT	TTAAGAAAAT	6120
CAAGATAAAA	ACGAACAAGT	TCTCTTCTGA	ATAACAGAAA	AAGAGCCTGT	TCGTTTTTTG	6180
TTATATGAAA	ATTAGTGACT	TGTAGATTTT	CATCTTATAC	CATTCCCAGC	AATACAAGTA	6240
GCTCATAGAA	AATAAGCGAG	CCACTCATTC	ATTAGACTAG	CGATTTCTTT	AGGTGCTTGA	6300
GTATAAAGCT	CATGGCCAAA	GTTTTCTAAA	AAAATAGTAT	CAAAATAGTC	TGGCAATTCT	6360
TTTAGGGCTT	CCTCTCTCCA	TGTAGCTTCA	TTAGGATAGC	GAGGACTAAT	AAACAAGGTA	6420
TCTCCCACTT	CTCTCTTAAA	AGCTTGTATT	TTTCTCCGTA	GCGGAGTATC	GCTTCTATAT	6480
TTTCATAATT	TATAGCCAAC	TCATATCTAT	TATACTCAAC	ATTCCAGTGA	TAAGACTGTC	6540
TTACAGCTTT	CTCCATATTT	TCTGACCAAT	GCTTTGCTTC	AGATTTTTCT	TTAGAAGTAA	6600
GAACATCTAA	GTCCGAAACA	ATTTGAGATT	TGATATAATT	TTTAGTTTCC	TCTAACTCTG	6660
TATCCAAAGG	TAAAATCTTA	TCTAAATCTA	GATAGCCACC	ATCCAAAAGA	ATCAGTTTCT	6720
TTACTTCTTC	AAATTCCGAT	GCGAAATÄAC	GAGCTAAATC	TCCTCCAAGA	GAATGGCCTA	6780
TCAGACAGAT	AGATTCTTCC	TCTACAATTT	САТТТТТААА	CCATGATTTC	AATTCTGTTT	6840
CATCTCGAAG	ATGCTTTTCA	TATGGATTTA	GAAAATAGAC	CTGCGAATCT	AGTTCTTGAA	6900
GAAAATCCTT	GCTATGATAG	GCATTGCTTC	CCAAACCGCC	AATAAAATAT	TTTTTCATTC	6960
TCTACTTAAT	ACTATGCTTA	TTCATCTTTT	GTTCAAAGAT	AGTTGTGATA	ATCTGACGCA	7020
ATTCTTCGCG	TTTTTTTCT	GGAATCTCAC	CACTTGTTTG	AGCTACAGCG	TAGAGTTCAG	7080
GGTATTCAAT	TGAAATGCGT	TTAATCGTAC	GTGTTGTAGC	ATGTTTTCTG	ACAAAAAACG	7140
GGATTCGCTT	AATCAAGTCT	TGTGGGACTA	GCGCCAGAAT	CTTCTCAGTA	GTTTCTTTGT	7200
CACTAATATT	AGACATTGTA	AGCCTTTTCT	TAATCATTTC	CTGTTCTTTT	TCTGTAAAAT	7260
CTTTTAATTC	CATTCGATTA	GTCCTCCTAT	TTTCTCTAAG	TTAAATTATG	TACTAATACA	7320
GATGAAACTA	CAAAGAATAA	ACTTTAAGAA	ATCTTCTCAC	TGATAAGATT	TTAGCATTAG	7380
ACTTCCTGCG	AAACAAAATA	TGGTATAGTA	GTTCTATGAA	TTATGAAGCA	AGTAAACAAC	7440
TAACTGATGC	ACGATTTAAA	CCTCTTCTTC	GTGTTCAGCG	CACGACTTTT	GAAGAGATAT	7500
TAGCTGTATT	AAAAACAGCT	TATCAACTTA	AACACGCAAA	AGGTGGACGA	AAACCTAAAT	7560
TAAGCCTAGA	AGACCTTCTT	ATGGCCACTC	TTCAATATGT	GCGAGAATAC	CGCACTTATG	7620
AAGAAATTGC	GGCTGATTTT	GGTATTCACG	AAAGCAACTT	AATCCGTCGG	AGCCAATGGG	7680

1085

TTTAAGTAAC	TCTTGTTCAA	AGTGGTGTTA	CGATTTCAAG	AACTCCTCTC	AGTTCTGAGG	774
ACACGGTAAT	GATTGATAGC	CATTCCCATC	AATATCGTAT	CTTTGGACAT	AGCCAATAAA	780
TGTTTCATTT.	TTGCGTGGTT	TCTGGCTATT	AACGATTGAA	ATAACCCACC	AACTTATCAA	786
AAATAGAAAT	AAAAATCCTA	AGATTACTGT	CATATCATAA	САСТАТТААА	GTTTAACCCA	792
CTTATCATTA	TCCATGATAA	AAGGCTTAGC	CAGTCCCTCG	CCTGTATAAT	CCGCATACTT	798
GGTGCCCAAA	TACTTGTAGC	AATCTTCCTT	ACTAGCAAAT	TTAATCGCTT	GGTAGGGCTC	804
TTCGAAAGTC	AATTTCTCTA	CAAATAAGAA	ACCGTCATCA	GCAGGTACTA	AGACCCCAAC	810
GTGGCCTACA	AACAGATACT	CGCCATCCAA	ATTGTCGTGC	AAGACTACAG	ACAGCATTCG	816
AGCTTTTTCA	TTGAATTGAA	ATTGTGAGAA	GAATGCTTCC	ATCTTTTCAG	CGTGAACCTT	8220
GACATCTGTA	GTTGACTCAG	TTGGAACTCT	CGAAAATAGA	ATATCAAACT	CTTCCTTATC	8286
TTGTGAATCA	AAGACCTTTC	CTTTATCAAT	CGCATCATTA	TCTAGGAAAA	GCAACTGGTC	8340
ATTCTTTTCA	AGCTTTGGAA	TGGTGACTGA	ATTTTTCAAA	AGACAATAAC	TATTGATACG	840
GCAGTTGGTC	CCAACAAAAT	CGCCCTTCTT	TTGATTCCAG	AGATGACTGA	TTTTCTCAAC	846
ATCGTATTCG	GTGTGAGTAA	AGGAAGTGAA	ATCTCCTGAT	AAGCCAGTTG	AGCCGACAAT	8520
GGTATTATAG	TCATTAACGA	GATTAAAAAA	TGCATCAACA	CTATTTGGAT	CCAAGTGAGC	8586
TGATAAGAGA	GATTTGACCT	CTTCTGTACT	TACCTGGTTG	TTTAGGTTGG	TGTATGAAGC	8640
TTTCCATGGA	ACTTTCGCTG	AACTGCTTTG	CCTTTGATTC	GTCCCCTCAG	AAGTAGCATG	8700
TTGTTGTTGA	CAAGCAGCCA	AGCCTAAAAA	CAAGGCTGAA	CAGATTCCTA	ATGTGGCTAA	8760
TTTTCTTGAT	TTCTTCATTT	CTTTCTCCTA	AATGTCTTGG	ATTAAAGTTT	СТТТААСТАТ	8820
TGCTTTACAG	ATATTGATTA	CTTTCTCATT	TAATGTGTTC	ATCGTCTTTC	CTCCGG	887

(2) INFORMATION FOR SEQ ID NO: 171:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14736 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 171:

CGCAAACTTT CGCGGTCGGA AGGTAGTTTT ATGACACGAT TTGAGATACG AGATGATTTC TATCTCGATG GAAAATCATT TAAGATTTTA TCTGGTGCCA TTCATTATTT TAGGGTTCCT 120 CCAGAGGATT GGTATCATTC GCTCTATAAC TTGAAGGCTC TTGGTTTTAA TACGGTAGAG 180

			1080			
ACTTATGTTG	CTTGGAATTT	ACACGAGCCT		AGTTTCATTT	TGAAGGTGAT	24
CTGGATTTAG	AGAAATTTCT	CCAAATAGCG	CAGGATTTGG	GTCTCTACGC	AATTGTGCGT	30
CCGTCTCCAT	TTATCTGTGC	GGAATGGGAA	TTCGGTGGCT	TACCAGCTTG	GCTCTTGACC	36
AAGAACATGC	GAATTCGCTC	ATCCGACCCA	GCATATATCG	AGGCAGTTGG	TCGCTACTAT	420
GATCAGTTAT	TGCCAAGACT	GGTGCCTCGT	TTGTTGGACA	ATGGTGGCAA	TATTCTCATG	480
ATGCAGGTTG	AAAATGAGTA	TGGTTCTTAC	GGAGAAGATA	AGGCTTACCT	GAGAGCGATT	540
ĊGACAGCTAA	TGGAAGAGTG	TGGCGTAACC	TGTCCCCTCT	TTACATCAGA	TGGTCCATGG	600
CGAGCTACTC	TGAAAGCTGG	AACCTTAATT	GAAGAGGACC	TCTTTGTAAC	AGGAAACTTT	660
GGTTCTAAGG	CACCTTACAA	CTTTTCGCAG	ATGCAGGAAT	TCTTTGATGA	ACATGGTAAG	720
AAATGGCCAC	TCATGTGTAT	GGAGTTCTGG	GATGGTTGGT	TCAATCGCTG	GAAAGAACCG	780
ATTATCACAC	GGGATCCTAA	GGAATTGGCA	GATGCAGTTC	GAGAGGTTTT	GGAACAAGGC	840
TCTATCAATC	TTTACATGTT	CCACGGTGGT	ACAAACTTTG	GTTTCATGAA	TGGTTGCTCA	900
GCTCGAGGAA	CTTTGGACCT	GCCACAAGTT	ACGTCTTATG	ATTACGATGC	CCTTCTGGAT	960
GAAGAAGGAA	ATCCAACTGC	TAAATATCTT	GCAGTCAAGA	AGATGATGGC	AACACATTTT	1020
TCAGAGTATC	CGCAGTTGGA	ACCACTCTAC	AAAGAGAGTA	TGGAGTTGGA	TGCTATTCCA	1080
CTAGTTGAAA	AAGTTTCTTT	GTTTGAAACC	TTAGATAGCT	TGTCAAGTCC	TGTAGAAAGT	1140
CTCTATCCTC	AAAAGATGGA	GGAGCTGGGA	CAAAGTTATG	GCTACCTACT	TTATCGAACA	1200
GAAACAAACT	GGGATGCAGA	AGAAGAAAGA	CTTCGTATCA	TTGATGGTCG	AGATAGGGCC	1260
CAGCTGTATG	TCGATGGTCA	GTGGGTTAAA	ACTCAATATC	AGACAGAGAT	TGGGGAAGAT	1320
ATTTTTTATC	AAGGTAAAAA	GAAAGGGCTA	TCTAGGTTAG	ATATCTTGAT	AGAAAATATG	1380
GGGCGTGTCA	ACTATGGGCA	TAAGTTCTTA	GCGGATACGC	AACGTAAGGG	AATTCGGACA	1440
GGGGTÇTGTA	AGGATCTGCA	TTTCTTACTA	AACTGGAAAC	ACTATCCACT	CCCACTAGAC	1500
AATCCTGAGA	AAATTGATTT	TTCAAAAGGA	TGGACTCAAG	GACAACCAGC	CTTTTACGCT	1560
TATGACTTTA	CAGTCGAAGA	GCCAAAAGAT	ACTTACCTAG	ACTTGTCTGA	GTTTGGTAAG	1620
GGGGTTGCCT	TTGTCAATGG	GCAGAATCTA	GGACGTTTTT	GGAACGTTGG	CCCAACTCTC	1680
TCACTTTATA	TCCCTCATAG	CTATCTCAAG	GAAGGTGCCA	ACCGCATCAT	TATCTTTGAA	1740
ACAGAAGGTC	AATATAAAGA	AGAGATTCAT	TTAACTCGTA	AACCTACACT	AAAACATATA	1800
AAGGGGGAAA	ACTTATGACA	ATTGTAGGAT	GCCGTATTGA	TGGACGTTTG	ATCCACGGAC	1860
AAGTAGCCAA	TCTTTGGGCT	GGAAAACTAA	ATGTTTCACG	CATTATGGTT	GTAGACGACG	1920
ልልርምምርምራልል	СУУССУПУЛЬТ	CAAAACACTC	COOOCAAACO	mccca cacca	CCACCMCMCA	1000

Aattgagtat	TTTGCCAGTT	GAGAAAGCTG	CAGCCAATAT	TCTTGGTGGC	AAATACGATA	2040
GCCAACGTCT	CTTTATCGTG	GCTCGTAAAC	CAGACCGCTT	CCTTGGTTTG	GTAGAAGCAG	2100
GTGTACCACT	TGAAACCCTT	AATGTTGGGA	ATATGTCTCA	AACACCAGAA	ACTCGTTCTA	2160
TTACACGTTC	TATCAACGTA	GTAGACAAGG	ATGTGGAAGA	CTTCCACAAA	CTGGCAGAAA	2220
AAGGTGTTAA	ACTTACTGCT	CAGATGGTTC	CAAATGATCC	AATTTCAGAC	TTTTTGAGCT	2280
ТАТТААААТА	GGAAAAAAAT	TTTTAGGAGG	TCATTGTTAT	GATACAATGG	TGGCAAATTT	2340
TACTTCTCAC	TTTGTACTCA	GCTTATCAAA	TCTGTGATGA	GTTGACGATC	GTTTCATCTG	2400
CAGGTTCCCC	TGTATTTGCT	GGTTTCATTA	CTGGTTTAAT	CATGGGAGAT	GTGACTACTG	2460
GTTTACTTAT	CGGTGGTAAC	TTGCAACTGT	TCGTTCTTGG	GGTTGGTACC	TTCGGTGGTG	2520
CTTCTCGTAT	CGACGCAACT	TCTGGTGCGG	TTCTTGCGAC	ACCTTCTCTG	TTTCACAAGG	2580
AATTGATGCA	CCGCTTGCCA	ттастасаат	CGCTGTACCA	GTAGCAGCTC	TCTTGACTTA	2640
CTTCGACGTT	CTTGGTCGTA	TGACTACTAC	CTTCTTCGCT	CACCGTGTGG	ATGCTGCAAT	2700
CGAACGCTTT	GACTATAAAG	GTATTGAACG	CAACTACTTG	CTTGGTGCGA	TTCCGTGGGC	2760
TCTATCTCGT	GCCCTTCCAG	TCTTCTTTGC	CCTTGCTTTT	GGTGGTGCCT	TTGTACAATC	2820
AGTAGTAGAC	TTCGTTGAAG	CCTACAAATG	GGTTGCAGAT	GGCTTGACAC	TTGCAGGACG	2880
TATGCTTCCA	GGTCTTGGAT	TTGCAATCTT	GCTTCGTTAC	CTTCCAGTTA	AACGTAACCT	2940
тсастасстт	GCTATGGGAT	TTGGTTTGAC	AGCTATGTTG	ACTGTTCTTT	ACTCATATGT	3000
AACAGGTCTT	GGTGGCGCTG	TTGCTGGTAT	CGTAGGTACT	CTTCCTGCTG	AAGTTGCTGA	3060
AAAAATTGGT	TTCGTGAACA	ACTTCAAAGG	TTTGTCTATG	ATTGGTATTT	CTATCGTAGG	3120
ТАТТТТССТТ	GCAGTGCTTC	ACTTCAAAAA	TAGCCAAAAA	GTAGCTGTAG	CAGCACCTTC	3180
TACACCATCA	GAAAGTGGGG	AAATCGAAGA	TGACGAATTC	TAATTACAAA	CTTACAAAAG	3240
AAGATTTTAA	TCAAATCAAC	AAACGTAGCT	TGTTTACTTT	CCAATTAGGT	TGGAACTACG	3300
AACGTATGCA	AGCTTCTGGT	TACCTTTACA	TGATCTTGCC	TCAGTTGCGT	AAAATGTATG	3360
GTGATGGAAC	TCCTGAATTG	AAAGAAATGA	TGAAAGTTCA	TACTCAATTC	TTCAATACTT	3420
CACCATTCTT	CCATACCATT	ATCGCTGGTT	TTGACCTTGC	CATGGAAGAA	AAAGATGGTG	3480
TAGGTTCAAA	AGACGCCGTT	AACGGTATCA	AGACAGGTTT	GATGGGACCA	TTCGCTCCTC	3540
TTGGGGATAC	AATCTTTGGT	TCACTTGTAC	CTGCTATCAT	GGGGTCAGTC	GCAGCAACTA	3600
TGGCTATCGC	TGGCCAACCT	TGGGGGATCT	TCCTTTGGAT	TGCAGTTGCA	GTAGCGTATG	3660
ACATCTTCCG	TTGGAAACAG	TTGGAATTTG	CTTACAAAGA	AGGGGTTAAC	CTTATCAACA	3720

			1088			
ACATGCAAAG	TACCTTGACA	GCTTTGATTG	ACGCTGCATC	TGTACTTGGT	GTCTTCATGA	3780
TGGGTGCTCT	TGTAGCAACA	GTGATTAACT	TTGAAATTTC	TTACAAGTTG	CCAATCGGTG	3840
AAAAGATGAT	TGATTTCCAA	GACATCTTGA	ACCAAATCTT	CCCACGTTTG	CTTCCAGCAA	. 3900
TCTTTACTGC	CTTTATCTTC	TGGTTGCTTG	GTAAGAAAGG	TATGAACTCT	ACTAAAGCTA	3960
TCGGTATTAT	TATCGTACTT	GCTTTGGCTC	TTTCTGCCCT	TGGTCACTTT	GCACTTGGAA	4020
TGTAATTCCT	TATGACTAAA	TCATTAATTT	TGGTGAGCCA	TGGTCGCTTC	TGTGAGGAGC	4080
TTAGAGGTAG	CACAGAAATG	ATTATGGGCC	CACAAGACAA	CATTTACACA	GTAGCTCTTC	4140
TTCCAGAAGA	TGGCCCAGAA	GAATTTACTG	CTAAATTTGA	AGCTGTTATT	GAAGGATTGG	4200
ATGATTTCCT	AGTCTTTGCG	GATCTTCTCG	GTGGGACACC	TTGTAATGTG	GTGAGTCGCT	, 4260
TGATCATGGA	AGGTCGTGAT	ATTGACCTTT	ACGCAGGGAT	GAATCTTCCA	ATGGTGATTG	4320
AATTTATCAA	TGCGAGCCTT	ACAGGCGCAG	ATGCGGACTA	CAAGAGCCGT	GCTGCAGAAA	4380
GCATTGTGAA	AGTTAATGAC	CTGTTAGCGG	GCTTCGATGA	TGACGAAGAT	GAATAATACT	4440
CTTCGAAAAT	CTCTTCAAAC	TACGTCAACG	TCGCCTTGCC	GTAGgTATAT	GTTACTGACT	4500
TCGTCAGTCT	TATCCGGCAA	CCTCAAAACG	GTGTTTTGAG	CTGACTTCGT	CAGTCTTATC	4560
CGGCAACCTC	AAAGCAGTGC	TTTGAGCAGC	CTGCGGCTAG	TTTCCTACAG	ATTTTAGTTG	4620
GAACTCGATT	CAATTCATGT	GACAACGTGA	AAATCGTTAG	AGCATTTTAT	ATAGAATATA	4680
CATGGGAATG	TAGCTTACTC	CCATTCCCAT	ATTTAATAGA	AAAAGAGGAA	CTCAATGCTA	4740
CATTATACAA	AAGAAGACTT	GCTCGAATTG	GGTGCAGAAA	TCACTACGCG	TGAAATCTAC	4800
CAACAGCCTG	ATGTATGGAG	AGAAGCTTTT	GAATTTTATC	AAGCAAAACG	TGAAGAAATT	4860
GCAGCCTTCC	TACAAGAAAT	CGCTGATAAA	CATGACTATA	TTAAGGTTAT	CTTGACAGGT	4920
GCTGGGACTT	CTGCTTATGT	GGGAGATACC	TTGCTACCTT	ATTTTAAGGA	AGTCTATGAC	4980
GAACGCAAAT	GGAATTTCAA	TGCTATTGCG	ACAACAGATA	TCGTTGCCAA	TCCAGCAACC	5040
TATTTGAAAA	AAGATGTGGC	AACTGTCCTT	GTGTCTTTTG	CTCGTAGTGG	GAATTCGCCT	5100
GAAAGTTTGG	CGACTGTTGA	TTTGGCCAAA	TCCTTGGTGG	ATGAGCTTTA	TCAAGTGACG	5160
ATTACTTGTG	CAGCAGATGG	TAAATTGGCT	CTTCAAGCTC	ACGGTGATGA	TCGTAATCTC	5220
TTGCTCTTGC	AACCAGCTGT	CTCTAATGAT	GCTGGATTTG	CCATGACTTC	TAGCTTTACG	5280
TCTATGATGT	TGACAACTCT	CTTGGTCTTT	GATCCTACAG	AATTTGCTGT	TAAGTCTGAA	5340
CGTTTTGAAG	TTGTATCTAG	TCTTGCCCGT	AAAGTTTTAG	ACAAGGCAGA	AGATGTCAAA	5400
GAGCTCGTTG	ATTTAGACTT	TAACCGTGTC	ATCTATCTAG	GCGCTGGTCC	TTTCTTTGGA	5460
CTTGCTCATG	AAGCTCAGCT	CAAGATTTTG	GAATTAACTG	CTGGTCAAGT	TGCGACCATG	5520

TATGAAAGCC	CAGTTGGCTT	CCGTCACGGT	CCAAAATCTC	TTATCAACGA	CAATACAGTT	558
STTTTGGTCT	TTGGTACAAC	GACAGACTAC	ACTCGTAAGT	ACGACTTGGA	CTTGGTTCGT	564
SAAGTTGCTG	GTGACCAGAT	TGCTCGTCGT	GTTGTGCTTT	TGAGTGATCA	AGCTTTTGGT	570
TTGAAAATG	TCAAAGAAGT	GGCCCTTGGT	TGTGGCGGTG	TCTTGAATGA	TATTTACCGT	576
TCTTCCCTT	ACATCGTTTA	TGCCCAACTC	TTTGCTTTAT	TGACTTCACT	CAAGGTAGAA	582
ATAAACCAG	ATACACCGTC	TCCTACAGGT	ACAGTAAACC	GTGTAGTACA	AGGTGTCATA	588
ATTCACGAAT	ATCAAAAGTA	AGACAGTGTT	TATGAATTCT	TGACAAGAGG	ATTTGTAAAT	594
PATCAGATAA	ACCATAGATT	GTCAGTACGC	TTTCTATGGT	TTGTTTGCTT	GAGAGAAATA	600
TAAAAGGA G	AACAGAATGA	AAGCATACAC	AGAGCGTGTA	TTTGGAAATG	TTGAGGGTGA	606
GATGTCTTG	GCCTATCGAT	TTGAGACAGA	CGGTGGCTAC	CAACTTGAGG	TTATGACTTA	612
rggtgcgact	ATCTTGCGCT	ATGTCGCACC	TGACAAGGCT	GGAAATTTTG	CCAATGTTAT	618
CTTGGGATTT	GATGACTTTG	ATAGTTATGT	AGGCAATAGT	CCCAAGCATG	GAGCAAGTGT	624
AGGTCCTGTA	GCGGGTCGTA	TTGCAGGTGC	GACCTTTGAG	CTCAATGGTA	AGACCTATGA	630
CCTTGAGGTT	AATAATGCTA	GCAACTGTAA	TCACAGTGGT	TCAACTGGTT	GGGATTCCAG	636
CTTGTTTGAA	GTTGAAGAAG	TAAGCGATCA	TGGCTTGACT	CTCTACACAG	AGCGTACAGA	642
'GGGACAGGA	GGGTTCCCTG	GAAATCTCAA	GATTTGGATC	AGTTATCACT	TGGAAGAAAC	648
GGTGCCTAT	GAAATCAGCT	ACAAGGTAAC	GACCGATCAG	GATACGCTGG	TCAATCCAAC	654
CAACCACAGC	TATTTCAACT	TGTCTGGTGA	TTTCACGCAG	ACGATTGACC	GTCATGTCTT	660
CAACTAAAC	ACAGAGGGCA	TTTACTCAAT	CGCTCCTGAC	GGTGTTCCTG	CCAAAACTCC	666
GAAGCCAAC	CGTGATGTGG	TCAAACACGT	CTACAATGGT	ACCTTGTTGA	AGGATATCTT	672
GCAGAAGAA	GATGAGCAAA	TCCAGCTGGC	ATCAGGTTTG	GATCATCCAT	TTGCCCTTCC	678
GCAGGCCAT	GACAATGCTG	GATTCCTTTA	TGACCAAAAT	TCAGGTCGCT	TCCTGCTTTT	6840
AAGACAGAA	GCTCCTTGCT	TTGTGGTCTA	CACAGCAAAC	TTTGTGGATG	AAAGTGTCAT	690
CATAGGAGGT	CAGCCAATGC	TACAGCACAA	TGGGATTGCT	CTTGAAGCGC	AAGCTTTACC	6966
GATGCCATT	CACAGTGACC	TTAAAGGCCA	AGTCATTCTT	AAAGCTGGTC	AAACCTTCAC	702
AGTAAGACA	CGTTATGAAC	TTGTTGTGAA	GTAAAAGAGT	CATTGCGCCT	ACTTTTGGGA ,	708
CTAGGAATA	GGTACGCAGA	GACAAATAGT	AGGAAAATAT	GATATAACTA	AGCGTTGAAA	7140
CTATCTGTT	AATATAATAT	TCAAACTACA	ATAAGGAGTA	AGAAAGAAAC	GAAGAAAATT	720
ፈጥጋ-የኮሞሞ ፈጥ2	CTCCCTTCCC	באנאנואלה ע באנואנות	COTCOACCAC	משושוויים הא א א	mc s memmmm	726

GCGAACGACA	GACTTGTGGC	AACACAAACT	1090 ACTGATGGTA	AAAATGAAAA	ጥርምልሞጥርልርር	7320
		TAGTGGCAAT				7380
-		TTTGGATGCC				7440
GAAGGTTTGG	TAGATAAGTA	TGTCCCTATC	AAATGATCAA	CTGACCTAGA	AAAGGCAGCT	7500
TTTGCCAGAG	CTACAGAAGC	ATCTATAACC	ATGGATCATA	CCCGTCTTTC	TAGCAAAGAT	7560
CTTTGGAGTG	CCTTTCCAAC	TTCTAATAGT	ATAATGGGAG	AAAATTTGGC	ATGGAATCAT	7620
GACGGTTTTC	TAAAAGCTAT	TGAACAATGG	CGTGCTGAAA	AAGCAGATTA	TGTGGAGAAA	7680
AAAATAGTGG	TTCAGACAAC	GGGAAATCTG	GTCACTATGA	GTCGCTAATT	AACCCTAAAT	7740
TTACACACAT	GGGGATGGCA	GCTTTTAAAA	ATCCTAACAA	TCAATACAAA	GCTATTACAA	7800
TTGCTCAAAC	TCTAGGTGAT	GATGCTTCTT	CAGAGGAATT	GGCTGGTAGA	TATGGTTCTG	7860
CTGTTCAGTG	TACAGAAGTG	ACTGCCTCAA	ACCTTTCAAC	AGTTAAAACT	AAAGCTACGG	7920
TTGTAGAAAA	ACCACTGAAA	GATTTTAGAG	CGTCTACGTC	TGATCAGTCT	GGTTGGGTGG	7980
AATCTAATGG	TAAATGGTAT	TTCTATGAGT	CTGGTGATGT	GAAGACAGGT	TGGGTGAAAA	8040
CAGATGGTAA	ATGGTACTAT	TTGAATGACT	TAGGTGTCAT	GCAGACTGGA	TTTGTAAAAT	8100
TTTCTGGTAG	CTGGTATTAC	TTGAGCAATT	CAGGTGCTAT	GTTTACAGGC	TGGGGAACAG	8160
ATGGTAGCAG	ATGGTTCTAC	TTTGACGGCT	CAGGAGCTAT	GAAGACAGGC	TGGTACAAGG	8220
AAAATGGCAC	TTGGTATTAC	CTTGACGAAG	CAGGTATCAT	GAAGACAGGT	TGGTTTAAAG	8280
TCGGACCACA	CTGGTACTAT	GCCTACGGTT	CAGGAGCTTT	GGCTGTGAGC	ACAACAACAC	8340
CAGATGGTTA	CCGTGTAAAT	GGTAATGGTG	AATGGGTAAA	CTAGGCTCAG	GCCATAGGTA	8400
AAGCATTCAT	CTTACTTAGC	AAAAAGAATG	AACGATAAGA	AAGAGGTTGA	TGGCGAACAT	8460
TGGCCTCTTT	TGATTTATAA	AGATTGGATT	CTTGTCGCCT	CAATTTCAGA	CTTTTCTATT	8520
GTAAGCTAAT	ATTTTATAGC	CCATTAAAAG	CATAAGCGGT	AATCTAATTT	AAAAAATGCT	8580
GTAATTAGTC	TGAAGTCCAC	ACTTACTTGT	TGAGATGTTA	TCTCTGTTTT	TTATCGTTAT	8640
AATTTACTGT	ATTTTTTATA	GTATGCAGAA	TATTTTTAAG	ТАТАТТТСАА	TAGAAATTTC	8700
TATCGATTTA	TTGTATAATG	ATAAGTAATT	GTTGAAAAGT	ACTCAGAAAA	TTCCATACTA	8760
TATTATTTT	ATGTTTATAC	TTTTATGCTA	TAAAATATAG	ATTGATATAA	AGAATATAGA	8820
AAAAGCGAGG	TTAATATGAG	CCGAAAAAGC	ATTGGTGAGA	AACGCCATAG	TTTCTCGATG	8880
AGAAAGTTGT	CAGTGGGATT	GGTATCAGTT	ACTGTATCTA	GTTTCTTTT	GATGAGTCAA	8940
GGGATTCAAT	CGGTATCGGC	CGATAATATG	GAAAGTCCAA	TTCATTATAA	GTATATGACC	9000
GAGGGTAAAT	TGACAGACGA	GGAAAAATCC	TTGCTGGTAG	AGGCCCTTCC	ACAACTGGCT	9060

GAAGAATCAG	ATGATACTTA	TTACTTGGTT	TATAGATCTC	AACAGTTTTT	ACCGAATACA	9120
GGTTTTAACC	CAACTGTTGG	TACTTTCCTT	TTTACTGCAG	GATTGAGCTT	GTTAGTTTTA	9180
TTGGTTTCTA	AAAGGGAAAA	TGGAAAGAAA	CGACTTGTTC	ATTTTCTGCT	GTTGACTAGC	9240
ATGGGAGTTC	AATTGTTGCC	GGCCAGTGCT	TTTGGGTTGA	CCAGCCAGAT	TTTATCTGCC	9300
TATAATAGTC	AGCTTTCTAT	CGGAGTCGGG	GAACATTTAC	CAGAGCCTCT	GAAAATCGAA	9360
GGTTATCAAT	ATATTGGTTA	TATCAAAACT	AAGAAACAGG	ATAATACAGA	GCTTTCAAGG	9420
ACAGTTGATG	GGAAATACTC	TGCTCAAAGA	GATAGTCAAC	CAAACTCTAC	AAAAACATCA	9480
GATGTAGTTC	ATTCAGCTGA	TTTAGAATGG	AACCAAGGAC	AGGGGAAGGT	TAGTTTACAA	9540
GGTGAAGCAT	CAGGGGATGA	TGGACTTTCA	GAAAAATCTT	CTATAGCAGC	AGACAATCTA	9600
TCTTCTAATG	ATTCATTCGC	AAGTCAAGTT	GAGCAGAATC	CGGATCACAA	AGGAGAATCT	9660
GTAGTTCGAC	CAACAGTGCC	AGAACAAGGA	AATCCTGTGT	CTGCTACAAC	GGTGCAGAGT	9720
GCGGAAGAGG	AAGTATTGGC	GACGACAAAT	GATCGACCAG	AGTATAAACT	TCCATTGGAA	9780
ACCAAAGGCA	CGCAAGAACC	CGGTCATGAG	GGTGAAGCCG	CAGTCCGTGA	AGACTTACCA	9840
GTCTACACTA	AGCCACTAGA	AACCAAAGGT	ACACAAGGAC	CCGGACATGA	AGGTGAAGCT	9900
GCAGTTCGCG	AGGAAGAACC	AGCTTACACA	GAACCGTTAG	CAACGAAAGG	CACGCAAGAG	9960
CCAGGTCATG	AGGGCAAAGC	TACAGTCCGC	GAAGAGACTC	TAGAGTACAC	GGAACCGGTA	10020
GCGACAAAAG	GCACACAAGA	ACCCGAACAT	GAGGGCGAAg	CGCCAGTAGA	AGAAGAACTT	10080
CCGGCTTTAG	AGGTCACTAC	ACGAAATAGA	ACGGAAATCC	AGAATATTCC	TTATACAACA	10140
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GCAGGGACAC	GTACAATTCA	ATATGAAGAC	TACATCGTAA	ATGGTAATGT	CGTAGAAACT	10260
AAAGAAGTGT	CACGAACTGA	AGTAGCTCCG	GTCAACGAAG	TCGTTAAAGT	AGGAACACTT	10320
GTGAAAGTTA	AACCTACAGT	AGAAATTACA	AACTTAACAA	AAGTTGAGAA	СААААААТСТ	10380
ATAACTGTAA	GTTATAACTT	AATAGACACT	ACCTCAGCAT	ATGTTTCTGC	AAAAACGCAA	10440
GTTTTCCATG	GAGACAAGCT	AGTTAAAGAG	GTGGATATAG	AAAATCCTGC	CAAAGAGCAA	10500
GTAATATCAG	GTTTAGATTA	CTACACACCG	TATACAGTTA	AAACACACCT	AACTTATAAT	· 1056 0
TTGGGTGAAA	ATAATGAGGA	AAATACTGAA	ACATCAACTC	AAGATTTCCA	ATTAGAGTAT	10620
AAGAAAATAG	AGATTAAAGA	TATTGATTCA	GTAGAATTAT	ACGGTAAAGA	AAATGATCGT	10680
TATCGTAGAT	ATTTAAGTCT	AAGTGAAGCG	CCGACTGATA	CGGCTAAATA	CTTTGTAAAA	10740
GTGAAATCAG	ATCGCTTCAA	AGAAATGTAC	CTACCTGTAA	AATCTATTAC	AGAAAATACG	10800

1092 GATGGAACGT ATAAAGTGAC GGTAGCCGTT GATCAACTTG TCGAAGAAGG TACAGACGGT 10860 TACAAAGATG ATTACACATT TACTGTAGCT AAATCTAAAG CAGAGCAACC AGGAGTTTAC 10920 ACATCCTTTA AACAGCTGGT AACAGCCATG CAAAGCAATC TGTCTGGTGT CTATACATTG 10980 GCTTCAGATA TGACCGCAGA TGAGGTGAGC TTAGGCGATA AGCAGACAAG TTATCTCACA 11040 GGTGCATTTA CAGGGAGCTT GATCGGTTCT GATGGAACAA AATCGTATGC CATTTATGAT 11100 TTGAAGAAAC CATTATTTGA TACATTAAAT GGTGCTACAG TTAGAGATTT GGATATTAAA 11160 ACTGTTTCTG CTGATAGTAA AGAAAATGTC GCAGCGCTGG CGAAGGCAGC GAATAGCGCG 11220 AATATTAATA ATGTTGCAGT AGAAGGAAAA ATCTCAGGTG CGAAATCTGT TGCGGGATTA 11280 GTAGCGAGCG CAACAAATAC AGTGATAGAA AACAGCTCGT TTACAGGGAA ACTTATCGCA 11340 AATCACCAGG ACAGTAATAA AAATGATACT GGAGGAATAG TAGGTAATAT AACAGGAAAT 11400 AGTTCGAGAG TTAATAAAGT TAGGGTAGAT GCCTTAATCT CTACTAATGC ACGCAATAAT 11460 AACCAAACAG CTGGAGGGAT AGTAGGTAGA TTAGAAAATG GTGCATTGAT ATCTAATTCG 11520 GTTGCTACTG GAGAAATACG AAATGGTCAA GGATATTCTA GAGTCGGAGG AATAGTAGGA 11580 TCTACGTGGC AAAACGGTCG AGTAAATAAT GTTGTGAGTA ACGTAGATGT TGGAGATGGT 11640 TATGTTATCA CCGGTGATCA ATACGCAGCA GCAGATGTGA AAAATGCAAG TACATCAGTT 11700 GATAATAGAA AAGCAGACAG ATTCGCTACA AAATTATCAA AAGACCAAAT AGACGCGAAA 11760 GTTGCTGATT ATGGAATCAC AGTAACTCTT GATGATACTG GGCAAGATTT AAAACGTAAT 11820 CTAAGAGAAG TTGATTATAC AAGACTAAAT AAAGCAGAAG CTGAAAGAAA AGTAGCTTAT 11880 AGCAACATAG AAAAACTGAT GCCATTCTAC AATAAAGACC TAGTAGTTCA CTATGGTAAC 11940 AAAGTAGCGA CAACAGATAA ACTTTACACT ACAGAATTGT TAGATGTTGT GCCGATGAAA 12000 GATGATGAAG TAGTAACGGA TATTAATAAT AAGAAAAATT CAATAAATAA AGTTATGTTA 12060 CATTTCAAAG ATAATACAGT AGAATACCTA GATGTAACAT TCAAAGAAAA CTTCATAAAC 12120 AGTCAAGTAA TCGAATACAA TGTTACAGGA AAAGAATATA TATTCACACC AGAAGCATTT 12180 GTTTCAGACT ATACAGCGAT AACGAATAAC GTACTAAGCG ACTTGCAAAA TGTAACACTT 12240 AACTCAGAAG CTACTAAAAA AGTACTAGGA GCAGCGAATG ATGCAGCCTT AGATAACCTA 12300 TACTTAGATA GACAATTTGA AGAAGTTAAA GCTAATATAG CAGAACACCT AAGAAAAGTA 12360 TTAGCGATGG ATAAATCAAT CAATACTACA GGAGACGGTG TAGTTGAATA CGTAAGTGAG 12420 AAAATCAAAA ATAACAAAGA AGCATTTATG CTAGGTCTTA CTTATATGAA CCGTTGGTAC 12480 GATATTAATT ATGGTAAAAT GAATACAAAA GATTTATCTA CGTACAAGTT TGACTTTAAC 12540 GGAAATAATG AGACTTCAAC GTTGGATACT ATTGTCGCAT TAGGAAATAG TGGACTAGAT 12600

AACCTGAGAG	CTTCAAATAC	TGTAGGTTTA	TATGCGAATA	AACTTGCATC	GGTAAAAGGA	12660
GAAGATTCAG	TCTTTGACTT	CGTAGAAGCG	TATAGAAAAC	TGTTCTTACC	АААСААААСА	12720
AATAACGAGT	GGTTTAAAGA	AAATACAAAG	GCATATATAG	TCGAAATGAA	GTCTGATATT	12780
GCAGAAGTAC	GAGAAAAACA	AGAATCACCA	ACAGCCGATA	GAAAATATTC	ATTAGGAGTT	12840
TACGATAGAA	TATCAGCACC	AAGTTGGGGG	CATAAGAGTA	TGTTATTACC	ACTACTAACT	12900
TTACCTGAAG	AATCTGTGTA	TATTTCATCG	AATATGTCTA	CACTTGCATT	CGGTTCGTAT	12960
GAAAGATATC	GTGATAGTGT	GGATGGAGTT	ATTCTTTCAG	GAGATGCTTT	ACGAACTTAT	13020
GTAAGAAATA	GAGTTGATAT	AGCAGCGAAA	AGGCATAGAG	ACCATTATGA	TATTTGGTAC	13080
AATCTTCTTG	ACAGTGCTTC	AAAAGAAAAA	CTTTTCCGTT	CTGTGATAGT	TTATGATGGA	13140
TTCAATGTAA	AAGATGAGAC	AGGAAGAACT	TATTGGGCAA	GGTTAACGGA	TAAAAACATC	13200
GGCTCTATTA	AAGAATTCTT	CGGACCTGTT	GGGAAATGGT	ATGAGTATAA	TAGTAGTGCA	13260
GGAGCGTATG	CGyAtGGAAG	TTTAACGCAC	TTTGTGTTAG	ATAGATTATT	AGATGCTTAT	13320
GGAACGTCGG	TTTATACTCA	TGAAATGGTT	CATAATTCTG	ATTCTGCAAT	CTACTTTGAA	13380
GGAAATGGTA	GACGTGAAGG	ATTGGGAGCG	GAGTTATACG	CACTTGGTTT	ACTGCAATCT	13440
GTAGATAGTG	TAAATTCTCA	TATTTTAGCT	TTAAATACGT	TATATAAAGC	AGAAAAAGAT	13500
GATTTGAATA	GATTGCATAC	ATATAATCCG	GTGGAACGTT	TCGATTCGGA	TGAGGCGCTT	13560
CAAAGTTATA	TGCATGGATC	ATATGATGTA	ATGTATACAC	TTGATGCGAT	GGAAGCAAAA	13620
GCGATATTAG	CTCAAAATAA	TGATGTTAAG	AAAAAATGGT	TTAGAAAAAT	AGAAAATTAT	13680
TACGTTCGTG	ATACTAGACA	TAATAAAGAT	ACACATGCAG	GAAATAAAGT	CCGTCCATTA	13740
ACAGATGAAG	AAGTAGCTAA	CTTAACATCG	TTAAACTCAT	TAATCGACAA	CGACATCATA	13800
AATAGACGTA	GCTATGATGA	TAGTAGAGAA	TATAAACGAA	ATGGCTACTA	TACTATAAGT	13860
ATGTTCTCTC	CTGTATACGC	AGCGCTAAGC	AATTCGAAAG	GTGCTCCTGG	agatattatg	13920
TTTAGAAAAA	TAGCTTATGA	ATTACTTGCG	GAAAAAGGTT	ATCACAAAGG	ATTCCTACCT	13980
TATGTTTCTA	ATCAGTACGG	AGCAGAAGCA	TTTGCCAGCG	GAAGCAAAAC	ATTCTCATCA	14040
TGGCATGGAA	GAGATGTTGC	TTTAGTGACA	GATGATTTAG	TATTTAAGAA	AGTATTCAAT	14100
GGTGAGTACT	CATCATGGGC	TGATTTCAAA	AAAGCAATGT	TTAAACAACG	TATAGATAAA	14160
CAAGATAATC	TGAAACCAAT	AACAATTCAA	TACGAATTAG	GTAATCCTAA	TAGTACAAAA	14220
GAAGTAACTA	TAACAACGGC	TGCACAAATG	CAACAATTAA	TTAATGAAGC	GGCTGCGAAA	14280
GATATTACTA	ATATAGATCG	TGCAACGAGT	CATACCCCAG	CAAGTTGGGT	GCATTTATTA	14340

			1094			
AAACAAAAAA	TCTATAATGC	ATATCTTCGC	ACTACAGATG	ACTTTAGAAA	TTCTATATAT	14400
AAATAAGATT	GTAGAGTTTC	ATTGTTGAGT	AGTGTTTCTT	GTAAGGATGA	GGAGTCAGAT	14460
GACAAATCGA	CTCCTTTTTC	TTATGGATCG	ATGTAGAGAT	TTGATTGAAT	GCAGATTGCA	14520
GGAATCATCT	TCAACTCATC	AACGACCAAT	GGTGACAAGG	TGGATTTCAA	TCCCACAGAA	14580
AATGTTGATT	TGAGAAATAA	CTTTGCTAGT	CTAGTAAAAT	AAATACAAAA	CAATCCTAGA	14640
AGATTTTTTC	TGGGATTGTT	TTTTGCTGAG	TGGGATGCTT	CAAGTTGTCT	GGCTTGACTT	14700
TCTTGAGGGA	AGTTATATAA	TAGTTGTAAT	AATTAG			14736

(2) INFORMATION FOR SEQ ID NO: 172:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 11770 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 172:

ACAGGAAAGC	ACGATAGCAA	TCTCTTTGGA	AGATTTAAAA	AATATTCCTC	AAAGTTTCGC	60
TGTTGCTTAC	GGTGATACGA	AAGTATCTTC	GATTCTCTCT	GTCTTGCGTG	CTAATTTAGT	120
AAATCATTTG	ATTACAGACA	AAAATACAAT	TTTAAAAGTT	TTGGAAGAAG	ATGGGGATTT	180
GACTTTTAGA	GAGATTCTAG	GTGAGTGAAA	ATGATAGACT	GATTCAGTTT	ATCGTTTTTC	240
TTTTTAGTTG	ATTGCACATT	TGTGCTTATA	TAAACAAAAA	TAGTTTATCT	GTTGTTTTTG	300
GATTGACAAC	TTTATTATGT	AGTTGTATTC	TATAGTTACA	AAAGAAAATT	TTAAAATTTC	360
AAATGAAAAA	AGCTTTTTAC	ATAGTGAAAT	GAGGAGGAAT	TTATGGAAAT	GATTGTTCCA	420
GATCAAATTA	TCATGGGTTT	AATTTTATAT	GCTGGTGATG	CGAAACAACA	AAATATTAT	480
GCGTTAGATI	АСАТААААА	TGGTACATGT	GAACGGTGTG	AAGAAGAAAT	ACAGTTAGCT	540
GATGCAGCCT	TATTAGAAGC	TCATAATCTA	САААСААААТ	TTTTGGCACA	GGAAGCGTCT	600
GGTACAAAGA	CAGAAATTAC	AGCTCTCTTT	GTTCATTCAC	AAGATCATCT	CATGACCAGT	660
ATGACGGAGA	TTAATTTAAT	CAAAGAAATT	ATTAGTTTGA	GAAAAGAACT	TCATAAAAA	720
TAATACTAGA	GTATTATCAT	TGTTATTAAC	ATAGAGGAGG	AAAACATAAT	GGTGAAGATT	780
GGTTTGTTTI	GTGCAGCAGG	TTTTTCTACT	GGTATGCTTG	ТАААТААТАТ	GAAAATTGCA	840
GCGCAATCTA	GTGGAGTTGA	GGCAGAAATA	GAGGCGTTTT	CTCAGTCTAA	ATTAGCGGAT	900
TATGCGCCAA	ATATAGATGT	TGCACTATTG	GGTCCACAAG	TTGCTTATAC	ATTAGATAAA	960
TCAAAAGAAA	TTTGTGATAA	GTGTGATGTT	CCGATAGCTG	TTATTCCGAT	GATGGACTAT	1020

GGTATGTTAG	ATGGGAAAAA	AGTATTAGAT	TTGGCCCTAT	CTTTGATTAG	TGGGTAAGAA	1080
AAGGAGATTT	ATTATGTCAA	AGATGGATGT	TCAGAAAATC	ATTGCACCGA	TGATGAAGTT	1140
TGTGAATATG	CGTGGCATTA	TAGCTCTAAA	AGATGGGATG	TTAGCAATTT	TGCCATTGAC	1200
AGTAGTTGGT	AGTTTGTTCT	TGATTATGGG	ACAATTGCCG	TTCGAAGGAT	TAAATAAGAG	1260
CATTGCTAGT	GTTTTTGGAG	CTAATTGGAC	AGAGCCGTTT	ATGCAAGTAT	ATTCAGGAAC	1320
TTTTGCTATT	ATGGGTCTAA	TTTCTTGTTT	TTCAATTGCC	TATTCTTATG	CTAAGAATAG	1380
CGGAGTAGAG	GCTTTACCAG	CTGGAGTTCT	ATCTGTATCT	GCATTCTTTA	TTTTGCTAAG	1440
ATCATCTTAT	ATCCCTAAAC	AAGGTGAGGC	GATTGGGGAC	GCTATTAGTA	AAGTTTGGTT	1500
TGGAGGCCAA	GGAATTATCG	GTGCTATCAT	TATAGGTTTG	GTAGTAGGAA	GTATTTATAC	1560
CTTCTTTATA	AAGAGAAAA	TTGTTATTAA	GATGCCAGAA	CAAGTTCCAC	AAGCTATTGC	1620
CAAACAGTTT	GAAGCAATGA	TTCCAGCATT	TGTAATTTTC	TTATCTTCTA	TGATTGTATA	1680
TATTTTAGCG	AAGTCATTGA	CTAATGGCGG	AACATTCATA	GAAATGATTT	ATTCTGCTAT	1740
TCAAGTTCCG	TTGCAAGGTT	TAACTGGATC	TTTGTATGGT	GCTATTGGAA	TTGCATTCTT	1800
TATATCATTT	TTGTGGTGGT	TTGGTGTTCA	TGGGCAATCG	GTAGTAAATG	GAGTAGTGAC	1860
AGCTCTGCTT	TTATCTAATC	TTGATGCTAA	TAAAGCTATG	TTAGCCTCTG	CTAATCTATC	1920
ATTAGAAAAT	GGTGCACATA	TTGTTACTCA	ACAATTTTTA	GATTCATTTT	TAATTCTATC	1980
AGGTTCAGGG	ATTACGTTTG	GTCTTGTAGT	TGCCATGCTT	TTTGCAGCAA	AATCAAAACA	2040
ATACCAAGCC	TTAGGAAAAG	TTGCAGCTTT	TCCAGCAATA	TTTAACGTAA	ATGAGCCAGT	2100
TGTATTTGGA	TTTCCGATTG	TCATGAATCC	AGTTATGTTT	GTACCTTTCA	TTCTTGTTCC	2160
TGTACTTGCA	GCTGTGATAG	TATATGGAGC	TATTGCAACA	GGTTTCATGC	AGCCATTCTC	2220
AGGGGTAACA	TTGCCTTGGA	GTACACCAGC	TATTTTATCA	GGATTTTTGG	TGGGTGGATG	2280
GCAAGGAGTT	ATTACTCAGC	TGGTGATATT	AGCGATGTCT	ACATTGGTTT	ATTTTCCATT	2340
CTTTAAAGTA	CAGGATCGTT	TAGCTTACCA	AAATGAAATC	AAACAATCTT	AGAGGTATTT	2400
GTGTGTTACT	GTTAAACTCA	CACATTTGTG	СТАААААТТА	GAGAGTTAAA	ATTTTTCTAG	2460
TTAAAAGCTT	GAAAATTTCT	ATAAAAATCG	GTATTATATT	TTCGAAAGAA	TATAAAATAT	2520
TTTCGAAAGA	AAGGTGCTTA	CGATGGTAAA	TACAGAAGTA	GCAAGAACAA	CAATCAAGAC	2580
AGAATATTTT	GGCAGCCTTA	CTGAAAGGAT	GAACAAATAT	CGAGAAGATG	AATAAATTT	2640
AAAACCTTAT	ATTGATGCTG	AGAGAGCAGT	TCTAGCAACA	CGCGCCTATG	AACGATACAA	2700
GGAACAACCT	AATGTCCTAA	AACGTGCATA	TATGCTGAAA	GAAATTTTGG	AAAATATGAC	2760

			1030			
ТАТСТАТАТТ	GAAGAAGAAT	CTATGATTGC	GGGAAATCAA	GCTTCTTCCA	ATAAAGATGC	2820
TCCTATTTT	CCGGAATATA	CGCTAGAATT	TGTTCTCAAT	GAGTTGGATC	TTTTTGAAAA	2880
GCGTGATGGA	GATGTTTTCT	ATATTACAGA	AGAAACAAAA	GAACAACTTA	GAAGTATTGC	2940
TCCGTTTTGG	GAAAATAATA	ATTTACGTGC	TAGAGCTGGT	GCCTTATTAC	CTGAAGAAGT	3000
GTCTGTTTAT	ATGGAAACAG	GATTCTTCGG	TATGGAAGGT	AAGATGAATT	CTGGAGATGC	3060
TCACTTAGCA	GTTAACTATC	AGAAACTTTT	GCAATTTGGT	TTAAGAGGTT	TTGAAGAGCG	3120
GGCTCGTAAA	GCAAAAGTAG	CTCTAGATTT	AACAGATCCA	GCAAGTATTG	ATAAATATCA	3180
TTTTTACGAC	TCTATATTTA	TCGTAATCGA	TGCTATTAAA	GTATATGCAA	AGCGCTTTGT	3240
TGCTCTTGCT	AAAAGTTTAG	CCGAAAATGC	AAATCCTAAA	CGTAAGAAAG	AATTACTTGA	3300
GATTGCAGAT	ATTTGCTCTA	GAGTCCCATA	TGAACCGGCA	ACTACTTTTG	CAGAAGCTAT	3360
TCAATCAGTT	TGGTTTATTC	AATGTATTTT	ACAAATTGAA	TCTAATGGCC	ACTCTCTTTC	3420
ATATGGCCGT	TTTGATCAAT	ATATGTATCC	ATATATGAAG	GCTGATTTAG	AAAGTGGTAA	3480
AGAAACAGAA	GATAGCATTG	TTGAACGTCT	GACAAATCTT	TGGATTAAGA	CAATTACAAT	3540
TAATAAGGTT	CGCAGTCAAT	CACATACATT	TTCTTCAGCA	GGAAGTCCTT	ТАТАТСАААА	3600
TGTTACAATT	GGTGGACAGA	CTCGAGATAA	GAAGGATGCT	GTTAACCCAT	TATCTTATTT	3660
GGTATTAAAA	TCAGTTGCAC	AAACCCATCT	ACCGCAACCT	AATCTAACTG	TACGTTACCA	3720
TGCAGGTTTA	GATGCTCGTT	TCATGAATGA	GTGTATTGAA	GTGATGAAAC	TTGGTTTTGG	3780
TATGCCTGCA	TTTAATAATG	ATGAGATTAT	TATTCCTTCT	TTTATTGCAA	AAGGAGTATT	3840
GGAAGATGAT	GCTTATGATT	ACAGTGCCAT	TGGATGTGTT	GAAACGGCAG	TTCCAGGGAA	3900
ATGGGGCTAT	CGTTGCACAG	GTATGAGTTA	TATGAACTTC	CCTAAGGTTC	TACTTATCAC	3960
GATGAATGAT	GGAATTGATC	CGGCTTCGGG	TAAACGGTTT	GCACCAAGCT	TTGGTCGTTT	4020
TAAGGATATG	AAGAACTTTT	CTGAATTAGA	AAATGCTTGG	GATAAAACAC	TAAGATATTT	4080
GACACGAATG	AGTGTTATTG	TTGAAAATTC	TATTGATTTA	TCATTGGAAC	GAGAAGTTCC	4140
TGATATTCTA	TGTTCAGCAT	TGACTGATGA	TTGTATTGGT	CGTGGAAAAC	ACCTTAAAGA	4200
AGGTGGAGCA	GTATATGATT	ATATATCAGG	ATTGCAAGTT	GGAATTGCAA	ATTTGTCGGA	4260
TTCATTAGCT	GCAATTAAAA	AATTGGTGTT	TGAGGAAGAA	CGTATAAGCC	CAAGTCAGCT	4320
TTGGCATGCA	CTGGAAACAG	ATTATGCCGG	AGAAGAAGGT	AAGGTCATTC	AAGAAATGTT	4380
GATTCATGAT	GCACCTAAGT	ATGGTAATGA	TGATGATTAT	GCTGACAAAT	TGGTTACTGC	4440
TGCTTATGAC	ATTTATGTTG	ATGAAATTGC	TAAATATCCT	AATACACGTT	ATGGAAGAGG	4500
GCCTATTGGA	GGAATTCGTT	ATTCAGGAAC	ATCTTCTATC	TCAGCCAACG	TAGGGCAGGG	4560

ACGTGGAACA	TTAGCAACTC	CAGATGGACG	CAACGCGGGT	ACACCGTTAG	CAGAGGGTTG	4620
TTCACCATCA	CATAATATGG	ATCAACACGG	CCCTACATCT	GTTTTAAAAT	CTGTTTCAAA	4680
ATTACCAACA	GATGAAATCG	TAGGTGGGGT	TCTCTTAAAT	CAGAAAGTAA	ATCCTCAAAC	4740
GTTAGCCAAA	GAAGAAGATA	AATTAAAACT	AATTGCTTTG	TTACGAACAT	TCTTTAATCG	4800
TTTACATGGG	TACCATATTC	AATACAATGT	TGTTTCCAGA	GAGACGCTGA	TTGACGCTCA	4860
GAAACATCCT	GAAAAACACA	GAGACTTAAT	TGTTCGTGTT	GCAGGATACT	CTGCATTCTT	4920
CAATGTTCTT	TCTAAGGCAA	CCCAAGATGA	CATTATAGGA	CGTACTGAGC	AȚACTTTGTA	4980
AAATAAAGAG	GTTCTTTTTA	TGGAATTTAT	GCTTGACACA	TTAAATTTAG	ATGAGATTAA	5040
AAAGTGGTCT	GAAATTTTGC	CGCTAGCTGG	GGTAACTTCA	AATCCCACTA	TTGCAAAAAG	5100
AGAGGGTTCT	TTTTAATTA	TTGAACGAAT	CAAAGATGTA	AGAGAATTGA	TTGGCTCTAC	5160
ACCCTCTATT	CATGTTCAGG	TGATTTCTCA	AGATTTTGAA	GGCATCTTAA	AGGATGCTCA	5220
TAAAATTCGA	AGACAAGCAG	GAGATGATAT	ATTTATCAAA	GTACCTGTTA	CTCCAGCTGG	5280
ATTACGTGCA	ATAAAGGCGC	TAAAAAAAGA	GGGCTACCAT	ATCACTGCAA	CAGCTATTTA	5340
TACAGTTATT	CAGGGATTAT	TAGCTATCGA	AGCAGGAGCG	GATTACCTAG	CTCCATATTA	5400
TAATAGAATG	GAAAATCTGA	ACATTGATTC	AAATTCTGTC	ATTCGTCAAT	TAGCTCTTGC	5460
TATTGATAGA	CAGAACTCTC	CTAGTAAGAT	TTTAGCTGCA	TCCTTTAAAA	ATGTAGCACA	5520
AGTAAATAAT	GCTTTAGCTG	CAGGTGCGCA	TGCTGTTACA	GCAGGAGCGG	ATGTTTTTGA	5580
ATCAGCTTTC	GCCATGCCAT	CTATCCAAAA	GGCGGTTGAT	GATTTTTCTG	ACGATTGGTT	5640
TGTTATTCAA	AATAGTCGTT	CCATTTAGAT	AGAGAGGAAA	TACATATGAG	AATTTTTGCT	5700
AGTCCTTCTA	GATATATTCA	GGGGGAAAAT	GCCTTGTTTG	AAAATGCCAA	ATCAATTTTG	5760
GATTTGGGAA	ATTGCCCTAT	TCTATTATGC	GATCAGTTGG	TTTATGATAT	TGTTGGAAAA	5820
CGATTTGAAG	ATTACCTACA	TAGGTATGGT	TTCCATATTG	TTCTGGCGCT	ATTTAATGGT	5880
GAAGCTTCTG	ACAATGAAAT	CAATCGAGTT	GTTGCCTTGG	CTGAGAAAGA	AAATTGTGAT	5940
AGTATTATCG	GTCTTGGTGG	GGGAAAGACG	ATTGATAGCG	CAAAAGCTAT	TGCAGATTTG	6000
ATTGAAAAGC	CTGTTATTAT	TGCTCCAACA	ATTGCATCGA	CCGACGCACC	TGTATCTGCT	6060
TTATCTGTTA	TTTATACAGA	TGAAGGTGCA	TTTGATCATT	ATCTATTTA	ттстааааат	6120
CCAGATTTAG	TTTTGGTTGA	TACAAAAGTT	ATTTCACAAG	CCCCTAAGCG	TTTATTAGCG	6180
TCTGGTATTG	CAGATGGTTT	AGCAACTTGG	GTTGAGGCGC	GTGCGGTTAT	GCAGGCAAAT	6240
GGAAAAACTA	TGTTGGGACA	ACAGCAAACA	TTGGCTGGAG	TTGCAATTGC	GAAGAAATGT	6300

			1090			
GAAGAAACGC	TGTTTGCAGA	TGGTTTACAG	GCTATGGCAG	CTTGTGAAGC	TAAAGTGGTG	6360
ACACCAGCAT	TAGAAAATAT	TGTTGAAGCT	AATACTTTAT	TGAGTGGTCT	AGGTTTTGAA	6420
AGTGGAGGAT	TAGCTGCGGC	GCATGCAATT	CATAATGGTT	TTACTGCATT	GACAGGTGAC	6480
ATTCÁTCATT	TAACACATGG	TGAAAAAGTA	GCTTATGGAA	CTTTAGTACA	ACTATTATTG	6540
GAAAATAGAC	CTAAAGAAGA	ACTTGATAAG	TATATTGAGT	ТТТАСААААА	AATTGGTATG	6600
CCAACAACTC	TAAAAGAAAT	GCATTTGGAT	CAAGTTGGAT	ATGATGATTT	AATAAAAGTT	6660
GGTAAACAAG	CAACTATGGA	GGGTGAGACA	ATTCATCAGA	TGCCGTTTAA	GATTTCGCCT	6720
TCAGATGTTG	CTCAAGCTAT	TATCGCTGTA	GATGCCTATG	TAAATTCAAA	ATAAACAATA	6780
AGGACTACTG	TTTTCCAAAT	GGTAGTCTTT	TATTGATCCC	TGTATTGAAT	TCTATAGAAG	6840
attgaaatag	GATGAGAACA	AATCGATTGG	GAAAGTAAAA	TTAATTTCTA	TAAATGTTTT	6900
AGCAATTGTT	TCGTACTATT	TCAGATTCAG	ТСТАСТАТАТ	GTTCTTCATA	AATCAAAAAG	6960
CGACATAGGT	TGTCGGCTAT	TTATTGTGAA	TACATTAATT	AGCATTCCAG	TTTTATCTTC	7020
GGTCTAAAAT	AAGTATTTTG	TGCTATACGA	GATAAGCTTC	TTGACTTACT	CCTTGATTTA	7080
CTGCATAACA	ATGGGATAAA	AAGTGGGAGA	TAGAGCAATT	CATAGTCATC	AAAATTAATG	7140
AGATACAGTA	TACAGTTTTT	CCTTTAAACA	CATTTCAAAT	TCCCTCAAAA	ATGGTATAAT	7200
AGTAACATCA	CAAAATTGGA	GAGAGACCAT	GAGTTTTTAC	AATCATAAAG	AAATTGAGCC	7260
TAAGTGĢCAG	GGCTACTGGG	CAGAACATCA	TACATTTAAG	ACAGGAACAG	ATACATCAAA	7320
ACCTAAGTTT	TATGCGCTTG	ATATGTTCCC	TTATCCGTCT	GGAGCTGGTC	TGCACGTAGG	7380
ACACCCAGAA	GGTTATACTG	CAACCGATAT	CCTCAGTCGT	TACAAACGTG	CGCAAGGCTA	7440
CAATGTCCTT	CACCCAATGG	GTTGGGATGC	TTTTGGTTTG	CCTGCAGAGC	AATACGCTAT	7500
GGATACTGGT	AATGACCCAG	CAGAATTTAC	AGCGGAAAAC	ATTGCCAACT	TCAAACGTCA	7560
AATTAATGCG	CTTGGATTTT	CTTATGACTG	GGATCGTGAA	GTCAACACAA	CAGATCCAAA	7620
CTACTACAAG	TGGACTCAAT	GGATTTTCAC	CAAGCTTTAC	GAAAAAGGCT	TGGCCTATGA	7680
AGCTGAAGTG	CCAGTAAACT	GGGTTGAGGA	ATTGGGAACT	GCCATTGCCA	ATGAAGAAGT	7740
GCTTCCTGAC	GGAACTTCTG	AGCGTGGAGG	CTATCCAGTT	GTCCGCAAAC	CAATGCGCCA	7800
ATGGATGCTC	AAAATCACGG	CTTACGCAGA	GCGCTTGCTC	AATGACTTAG	ATGAACTAGA	7860
TTGGTCAGAG	TCTATCAAGG	ATATGCAACG	CAACTGGATT	GGTAAATCAA	CTGGTGCCAA	7920
TGTAACTTTC	AAAGTAAAAG	GAACAGACAA	GGAATTTACA	GTCTTTACTA	CTCGTCCGGA	7980
CACACTTTTC	GGTGCGACTT	TCACTGTCTT	GGCTCCTGAA	CATGAATTAG	TAGACGCTAT	8040
CACAAGTTCA	GAGCAAGCAG	AAGCTGTAGC	AGACTATAAA	CACCAAGCCA	GCCTTAAGTC	8100

TGACTTGGCT	CGTACAGACC	TTGCTAAAGA	AAAAACAGGG	GTTTGGACTG	GTGCTTATGC	8160
CATCAACCCT	GTCAATGGTA	AGGAAATGCC	AATCTGGATT	GCAGACTATG	TCCTTGCTAG	8220
TTATGGAACA	GGTGCGGTTA	TGGCTGTGCC	TGCCCACGAC	CAACGTGACT	GGGAATTTGC	8280
САААСААТТТ	GACCTTCCAA	TCGTCGAAGT	ACTTGAAGGT	GGAAATGTCG	AAGAAGCTGC	8340
CTACACAGAG	GATGGCCTGC	ATGTCAATTC	AGACTTCCTA	GATGGATTGA	ACAAAGAAGA	8400
CGCTATTGCC	AAGATTGTGG	CTTGGTTGGA	AGAAAAAGGC	TGTGGTCAGG	AGAAGGTTAC	8460
CTACCGTCTC	CGCGACTGGC	TCTTTAGCCG	TCAACGTTAC	TGGGGTGAGC	CAATTCCAAT	8520
CATTCATTGG	GAAGATGGAA	CTTCAACAGC	TGTTCCTGAA	ACTGAATTGC	CGCTTGTCTT	8580
GCCTGTAACC	AAGGATATCC	GTCCTTCAGG	TACTGGTGAA	AGTCCACTAG	CTAACTTGAC	8640
AGATTGGCTT	GAAGTGACTC	GTGAAGATGG	TGTCAAAGGT	CGTCGTGAAA	CCAACACTAT	8700
GCCACAATGG	GCTGGTTCAA	GCTGGTACTA	CCTCCGCTAT	ATTGACCCGC	ACAATACTGA	8760
GAAATTGGCT	GATGAGGACC	TCCTCAAACA	ATGGTTGCCA	GTAGATATCT	ACGTGGGTGG	8820
TGCGGAACAT	GCTGTACTTC	ACTTGCTTTA	TGCTCGTTTC	TGGCATAAAT	TCCTCTATGA	8880
CCTCGGTGTT	GTTCCGACTA	AGGAACCATT	CCAAAAACTC	TTTAACCAAG	GGATGATTTT	8940
GGGAACAAGC	TACCGTGACC	ACCGTGGTGC	TCTTGTGGCA	ACCGACAAGG	TTGAAAAACG	9000
TGATGGTTCC	TTCTTCCATG	TAGAAACAGG	GGAAGAGTTG	GAGCAAGCGC	CAGCCAAGAT	9060
GTCTAAATCG	CTCAAGAACG	TTGTTAACCC	AGACGATGTG	GTGGAACAAT	ACGGTGCCGA	9120
TACCCTTCGT	GTTTATGAAA	TGTTTATGGG	ACCACTCGAT	GCTTCGATTG	CTTGGTCAGA	9180
AGAAGGTTTG	GAAGGAAGCC	GTAAGTTCCT	TGACCGAGTT	TACCGTTTGA	TTACAAGTAA	9240
AGAAATCCTT	GCGGAAAACA	ATGGTGCTCT	TGACAAGGTT	TACAACGAAA	CAGTCAAAGC	9300
TGTTACTGAG	CAAATTGAGT	CTCTCAAATT	CAACACAGCT	ATTGCCCAAC	TTATGGTCTT	9360
TGTCAATGCT	GCTAACAAGG	AAGATAAGCT	TTATGTTGAC	TATGCCAAAG	GCTTTATTCA	9420
ATTGATTGCA	CCATTTGCAC	CTCACTTGGC	AGAAGAACTC	TGGCAAACAG	TCGCAGAAAC	9480
AGGTGAGTCA	ATCTCTTATG	TAGCTTGGCC	AACTTGGGAC	GAAAGCAAAT	TGGTTGAĀGA	9540
TGAAATTGAA	ATTGTCGTCC	AAATCAAAGG	AAAAGTTCGT	GCCAAACTCA	TGGTTGCTAA	9600
AGATCTATCA	CGTGAAGAAT	TACAAGAAAT	CGCTTTAGCT	GATGAAAAAG	TCAAAGCAGA	9660
AATTGACGGT	AAGGAAATCG	TGAAAGTAAT	TGCGGTACCG	AATAAACTCG	TTAATATCGT	9720
CGTTAAATAA	CGAGTTTATT	AGCTCTATCT	GCCACCTTCA	ATAGTCCACT	GGACTATTGA	9780
Asccaactaa	ATTAGTTAAC	ATTGTTGTGA	AATAAGATAG	GAGTCCTTCA	GAGTAGAATC	9840

TGGAGGATTT TT	TGAATCTT	CTTATGAAAG	1100 TATGATATAC	TATGGGCAAC	TATAAAGTTT	9900
GAAAAGTGAA AT	AAGGAGAA	TAAGATGCCA	GTAAATĢAAT	ATGGTCAAAT	GATTGGGGAG	9960
TCAATGGAAG CT	TATACTCC	AGGTGAATTG	CCTTCTTTTG	ATTTCTTAGA	AGGGCGTTAT	10020
GCTAGGATAG AG	GCTCTTTC	AGTGGAAAAG	CATGCGGAGG	ATTTATTAGC	TGTTTATGGC	10080
CCTGATACGC CT	CGGGAGAT	GTGGACCTAC	CTCTTTCAGG	AGTCAGTAGC	AGACATGGAG	10140
GAACTGGTCA GC	CTTTTAAA	TCAGATGTTG	GCTCGTAAGG	ACCGTTTTTA	TTATGCAATC	10200
ATAGACAAGG CA	ACTGGTAA	GGCTTTGGGA	ACTTTTTCCC	TCATGCGAAT	TGATCAGAAT	10260
AACCGAGTAA TA	GAAGTGGG	AGCTGTCACT	TTTTCTCCAG	AGCTCAGGGG	GACACGGATA	10320
GGAACAGAAG CC	CAGTATCT	CTTGGCTTGC	TATGTCTTTG	AGGAGCTTAA	CTATCGTCGC	10380
TATGAGTGGA AA	TGCGATGC	TCTTAACCTG	CCATCCAGAC	GAGCAGCGGA	ACGTTTGGGA	10440
TTTATTTATG AA	GGAACCTT	CCGTCAGGCA	GTGGTTTATA	AGGGCGTAC	AAGAGATACG	10500
GATTGGTTGT CT	atgattga	TAAGGACTGG	CCTCAAGTCA	AAGCTCGATT	GGAAATATGG	10560
TTGCGTCCTG AA	AACTTTGA	TAAAAATGGA	CGACAGCACA	AGAGCTTGAG	AGAACTTTAA	10620
GAGGTGTTGA GA	TGATTACT	ATTAAAAAGC	AAGAAATTGT	CAAGCTAGAG	GATGTTTTGC	10680
ATCTCTATCA GG	CTGTCGGT	TGGACAAACT	ATACCCATCA	AACAGAGATG	CTGGAGCAGG	10740
CCTTATCTCA TT	CATTAGTA	ATTTATCTGG	CACTTGATGG	TGATGCTGTG	GTGGGCTTGA	10800
TTCGTTTGGT TG	GAGATGGT	TTTTCATCAG	TTTTTGTACA	GGATTTGATT	GTTTTGCCTA	10860
GCTATCAGCG TC	AAGGGATT	GGTAGCTCCT	TGATGAAAGA	GGCTTTAGGA	AATTTTAAAG	10920
AGGCCTATCA AG	PCCAGCTG	GCGACAGAAG	AGACAGAAAA	AAACGTGGGA	TTTTATCGTT	10980
CTATGGGCTT TG	AAATCTTA	TCCACCTATG	ACTGTACAGG	AATGATTTGG	ATAAACAGAG	11040
AAAAATAAAA AA	ACTTGTTT	GTTCTTAAGC	aaagtttaag	GATGGTCTAG	TATCATATAG	11100
TCATTAAATA AAG	GACCTCCT	AACTTTATTT	AATAAAATCC	TAAACTTTTT	TCATCACAAT	11160
CTCCTAATGA AG	CCACCCAA	TCAGGTGGCT	TTTTTGCGGT	ACGACGGGCA	TGTCGTATAT	11220
CTGAGGTGTA AG	FCCTCAGC	CTGACTATCG	TGAGGTAGCA	GGGAGAGGAA	GGGATAGCGA	11280
AATCGTGGCT CT	ACGAACAG	GAACGTGATA	GTAAGGCGTA	TATAGCGGAT	AAGGAGGCTT	11340
CAAACTCTAA AG	PCCAAAAA	GGTAGTCGTA	ACCTATATGT	GTAAATCACG	AGAGTAATTG	11400
AATTCGGACT AAC	GTTTGTG	TGAAAAAGAT	AAATCTTTCT	AGAGTCTAAA	GACTCTGCGT	11460
CAGATTTCCT AT	PTTCACTG	TAACCTTTTA	ACGTCCTCAT	ATCTTGTATA	AACGAGGAAA	11520
GATGTACGAC TT	ATCCCGTG	AGGTTTCATG	AGCGCTGAAA	GCGTAGTAAC	AACGAATCAT	11580
GAGAAGTCAG CCC	GAGCCCAT	agtagtgagg	AAACTTCCGT	AATGGAAGTG	GAGCGAAGGG	11640

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GTGAATACTC	AAACAGTCTG	GGGAGAGACT	GTTTGAGGTC	TGTCGCTAGA	AAGAGAAAAC	11700
GACAGATCGA	AGTAATCCTA	CTTCACTTGT	GTCTGTAAAA	TGAGTGGTCT	GATAGAACTG	11760
GACTTTGAGG				•		11770

(2) INFORMATION FOR SEQ ID NO: 173:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 4185 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 173:

CGCGAAACTA	CTTTCTTAGT	ATAACACTTT	CAGAATCATT	GTCAATAGAA	ATGACTTGAT	60
TTTTTCAATT	TTTTCAAGCT	ATTTCCAAGG	GTTGTAAAAT	CGTCCCTGAT	TCTGCAAGAT	120
AAGTAGTAAA	СТААСТАСТА	AAAACAAGGT	TGCCAAGAGC	AAGGTAATAT	AGTCTCCTTT	180
TTTCAAGGCC	TGATAACTAT	ACCATGTGCG	TTTTTTCTCT	TTCCCAAAGC	GGCGAACTCC	240
ATGGCAGTCG	CAATGGTATC	AATGCGTTCT	AGCGAGCTAA	AAATCAAGGG	CGTAATAATG	300
AGCAGATTGC	CTTTGATTCG	TTGCATAAGA	GAAGCTTTCT	TGGATAATTC	CATCCCACGC	360
GCCTCCTGAG	ACATCTTGAT	AGTAAAGAAT	TCTTCCTGCA	AATCTGGAAT	ATAGCGCAAG	420
GTCAGGCTGA	CAGAATAAGC	AATCTTATAG	GGCACACCAA	TTTGATTTAA	ACTGGAAGCA	480
AACTGACTAG	GATGGGTTGT	CATCAAAAAG	ATAATAGCCA	GAGGAATGGT	GCAAAGATAC	540
TTAATGGCCA	AATTTAGCAG	ATAAAAGAGC	TCCTGGCTGG	TTAGAGTGTA	GACACCGATT	600
CCCTGCCAAA	TCACACTTCT	CTCTCCATAA	AGTCCAACCC	CATACTCGGG	AGAAAAGAGA	660
TAGACCATCA	AAACGTTTAA	AACGGCAAAT	ATCGTCGCAA	AAACGGCTAC	AAAGGAAACA	720
TCTTTAAAGC	GAATTTCTGA	TAAATAGAGG	AGAAAGACTG	AAAAGATGGC	AATCAGCAAG	780
AGCATTCTGG	TATCATAGCT	AATCATGGCC	GCCAATGATA	CCAGAATGAA	AAAGAGAAGT	840
TTCCCAGCTC	CTGACAAGCG	ATGAATCACA	GTATCTCTAT	GCTGGTAACC	GATTAATTTA	900
GCTTGCATCC	CTCTCTCCTT	TCTTTGTAAA	ATGCCGTTAA	ATCCAGTGGA	TCCACATCTÁ	960
GTTTCTTAGC	CAAGTTAAAG	ATGGAGGTTT	CTTTTAGATT	GGCTTTTACT	AACAGCTCAG	1020
GATCGCTCAA	CAGACTGGCT	GGAACAGTAT	CGGCAATCAA	TTCTCCATCC	ACCATGACAA	1080
GGACCCGGTC	TGAATAATCC	AGCATCAATT	GCATATCATG	GGTAATCATG	ACAATGGTAT	1140
GCCCTTTTTG	ATGTAACTCT	TCGAGAAATT	CCATAATCTC	AGTATAGTTC	TTCTGATCTT	1200

				1102		•	
GACCTGC	AGT	CGGTTCATCT	AGGAGAATAA	TTTCAGCTCC	TAAGACCAAA	ATTGAAGCAA	1260
TGGTGAC	ACG	TTTTTTCTGA	CCAAATGACA	GGGCAGAAAT	AGGCCAATTA	CGGAATTCAT	1320
AAAGTCC	ACA	GATTTTCAAG	GTTTCATATA	CTCTCGTTTC	AATTTCCTTC	TCATCCACAC	1380
CTCGCAA	ACG	GAGCCCTAGA	GCCACCTCAT	CAAAAATCAT	ATTGGTTGAA	ATCATTTGAT	1440
TAGGATT	TTG	TAGCACATAT	CCTACTCGTT	CCGCCCGCTC	TGCAACAGAA	TCGCCTTTTA	1500
TATCCTG	ттт	TTCCCAAAGA	TAGCGTCCTT	CCGTCTGAAT	AAAGCTACTT	ATAGCCTTGG	1560
CTAGAGT	TGA	TTTCCCTGCT	CCATTTTTC	CGACAATAGC	AATCTTTTCA	CCCTTTTTAA	1620
татстаа	ATG	TAGGGATTTT	AAAATCGGTC	TATCATCATA	AGAAAAAGAT	ACTTCCTCTA	1680
GTCTAAA	GAG	TGACTGCAAT	GCTGGGGTTT	CTTTTGCCAG	TTCATTCTGC	AACTGAACCT	1740
GACCTTT'	TGA	GATAGACAAG	TTATCCAGAT	TCGCTAATTG	TTCTTCCTTG	ACTAAGTCCA	1800
CACCTAA'	TTG	ACGGAGAGTC	GTTAGATAAA	GGGGTTCTCG	AATTCCATTT	TGAGTCAATA	1860
AATCAGT	CGC	AAGCAACTGG	TCAGGGCTCC	CATTAAAAAG	GATACGACCA	TCGTTTATCA	1920
AGACAAT	CCG	ATCCACAGGG	CGATGCAGAA	CGTCCTCCAA	ACGGTGCTCG	ATAATAAGAG	1980
TCGTCGT	ccc	CTCTTCCTTA	TGAATCTGGT	CAATCAATTC	GATAATATCC	TGACCTGACT	2040
TGGGATC	TAG	ATTGGCGAGT	GGCTCATCAA	ACAAGAGAAT	CGGACTTTCA	TCAATCAAGA	2100
CACCAGC	CAG	ACTGACTCGC	TGCTTTTGTC	CACCTGACAA	ATCCTGAGGA	CGCTGATCCA	2160
GTAAAGG	AAG	AAGGTCCAGC	TTTTCAGCCC	ATTTATAAAC	ACGACCTTTC	ATCTCATCTA	2220
GGGCTGT	CAC	ATCATTTTCC	AGAGCAAACG	CCAAATCTTC	TGCCACAGAC	AAGCCAATAA	2280
ACTGCCC	ATC	TGTATCCTGC	AAAACTGTGC	TAACCAGATG	AGACTTATCA	TAGATGCTCA	2340
ТАТСААА	GGC	TACTTGACCC	ТТТАТСАААА	ATTCTCCATA	TGTCTGACCC	TTGTAAATAT	2400
TGGGAAT	AAT	CCCATTCAAA	CACTGACCCA	AGGTAGATTT	ACCTGACCCA	GATGGTCCAA	2460
СААТТАА	GAC	TTTCTCTCCC	TTGTAAATGG	TCAAGTCTAT	CCCTTGCAAG	GTCGGTTCTT	2520
GTTGTGT	TTC	ATACCGGAAA	GAGAAATCCT	TCCACTCAAT	Tatagcttct	TTCATCTTAC	2580
TCTCTTC	ATT	CGCTTCTTAG	ACTTCTATTT	TATCATAAAT	CAAGCCCTTC	TTGCAGTCTC	2640
TCCTCTT	AAA	ATCTTAGCGC	CAAAAAGATT	CCTATCCTAG	CTTACTTGCC	TAACTAATCT	2700
ATAAACA'	TCG	AAAAAGACTA	GTTGCCCAGC	CTTCCCCATC	ATTTTATACT	CTTCGAAAAT	2760
CTCTTCA	AAC	CACGTCAGcT	TCGCCTTGCC	GTAGGTATGG	TTACTGACTt	CGTCAGTTTC	2820
ATCTACA	ACC	TCAAAACCAT	GTTTTGAGCc	TGCTTCGTCA	GTTCTATCCA	CAATCTCAAA	2880
ACACTGT	TTT	GAGCAACtGC	GGCTAGCTTC	CTAGTTTGCT	CTTTGATTTT	CATTGAGTAT	2940
ጥልርጥሮሮጥ	արդու	ጥሮልልልርሞሞርር	TGCACGAGTT	ጥ GGGጥጥርርጥር	CATAGGCAAG	TAAGAGAAGA	3000

GTTCCTGCAA	TAGCTACAGA	TACACCATTG	GCAATTCCCG	CAACAATCCC	TTGTGCAAAT	3060
ACTTTTTCTG	CCGCTTCTTG	ATAAATCACA	ACATCTCCAA	GTGGTGCCAA	GACACCCCAA	3120
ACAAGGGCAT	TTGCAAGTAG	TTGAATGAGA	ттааааатаа	GAATATCTTT	CCAGTCAAAA	3180
ACACCATTGA	TCACGCGAAC	GTACTTTCTA	AAAAGTCCCA	CAACTAAACC	AAAGAGTCCG	3240
CTAGCGATAA	TCCAAGTCCA	CCATAGACCA	TAACCAACAA	GAGAGTCCTT	GATTGCATGA	3300
CCAATCAACC	CGACAAGCAA	ACCGATAATC	GGTCCAAAAA	TAATAGAAAG	TAGCGCTTGT	3360
ACCGCATACT	GAAGÇTGGAT	GCTTGTATTT	GGAACAGGGG	TTGGAATGTT	GATCATCCCG	3420
ATGACGACAA	AGAGGGCAGC	GCCAATTCCG	ACAGCAACAA	CTTGTTTAAT	TGTAAATTTG	3480
ATTTCCATAC	TATTCTCCTA	TTTTATCCTT	CTATTTTCTT	TATTTCAATG	GTCCAAGATG	3540
AACCGACACC	TACATTATAG	GCCTTGGCAA	AGGAACCTTG	GTTGATAGCC	AAACCTAAAC	3600
GATAGAGAGA	GTTGATGTAA	AGGATGGGTT	GCCCAATTCT	CACATCTGCA	AATGATTTGC	3660
CATAGACAAC	CTGATTTTGA	TAGACCAGCA	TATCAGCATG	ATAGATGGTC	ACTTCAAAAC	3720
GATCACCAAA	TTCTGGTTCC	AGCTTGTAAA	ATTCTTCCCG	TGTGATAGAG	GTCCAAAGCG	3780
AACCGAAACG	CACATCCAGA	ATATCAATGG	CTCCCTTCAC	CAGATGATCT	TCTATGATGG	3840
TCGCTACGAC	TGGAAGCTCT	ACAATCTGTT	CCACACTGAG	CTCTGGCCCT	ACTTCCTCAA	3900
AAGTAATGTG	ACCACTGGCC	AGTTTAGCAC	CAGTATAGGC	ATAGACATCA	CGACCGTGGA	3960
AGGTATAAGA	ATGCTCTGTG	TTTTGACGCC	TATTGGCCAC	CTCAGAAATC	TCACGAATGG	4020
CTACAATGCC	AACGTGTTTC	TTGATAAAGG	AAAGCGTCCC	ATTATCTGGC	GTGACAATGT	4080
ATTGATTTTT	TGCAGTCTTG	GCAACTACAC	TCTTACGTTT	CGAACCGACA	CCTGGATCGA	4140
CAACCGATAC	AAACGTCGTT	CCCTCAGGCC	AGTAATCCAC	CGTCT		4185

(2) INFORMATION FOR SEQ ID NO: 174:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2069 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 174:

TGATAGAGTT	AAAGCCGCTG	AGTCATTCAA	TCCATCTCCA	ACCATCAAAA	TAGTGTGACC	60
TGCTTTCTGC	AGTTTCTCTA	СТААСТСААА	TTTCCCATCA	GGTTTCAAGT	CTGTATAGAC	120
CTGATCAAAG	GGCAAATCTT	TGACTAATTC	CTCTGTCCTA	ATCAAGGTGT	CTCCTGTTGC	180

		•	1104			
CAGAATCAAT	TTTTYCCCCT	GTGCCTTAAG	TTTATCCAAG	GCTGTTTTTG	CTTCTTTTCT	240
CAAAGGAGTA	TGAATGCAGA	ACATTCCAAT	CAATTCATTT	TGATAAGCCA	AGAATAAGAG	300
ATTGTAGTGA	CTCTTGTACT	CTTCAATTAA	AGCATTTTGT	TCTGAACTGA	TATGAATCTG	360
CTCATCCTGC	ATCAAGACAT	AATTCCCAAT	AAGAACTGGT	TGGCCATCTA	TATGAGATTT	420
GATCCCCTTG	CTTGCGATAT	ATTGGAGTTT	CCCATGCATT	TCCTCATGTT	CAATTCCCTC	480
TATCTCAGCT	TGCTTGACGA	TGGCATTAGC	AATAGGATGA	TAAATGTGTT	CCTCAAGACA	540
GGCACTGATT	CTGAGAATAT	CTTCCTCACT	ATAGTCTCCA	AAAGGTAACA	CCTTTTCAAC	600
TATAGGATAA	CTAGTTGTGA	TTGTTCCTGT	CTTATCAAAC	AAGAAAGTAT	CAACTTCCAG	660
ATATTTCTCC	AGAACATCTC	CATCCTTAAT	CACCATTTCA	CGGTTCAACC	CTTCCTTGAT	720
AACTGTCAAA	TAAGCTACAG	GAGTAGAGAT	TTTCAAAGCG	CAGGAGAAAT	CGACCAATAG	780
GAAAGAAATA	GCCTTAGAAA	AAGAACCTGT	CAATAGGTAA	GTCAGCCCAG	CCCCCAAGAA	840
ATTATATTTG	ACGACTTTAT	CCGCCATCTT	GATGAAATAG	CGTTGTTTCG	TTTTCTTGTT	900
TTCTTCAGAT	TTCTTCATCA	ACTCAATCAG	CTGTAAAATA	CGGCTGTTCA	TCTGATTATC	960
TGTTACACGA	ATGCGTAACT	CTCCAGTTTC	TAATACTGTA	TTTGCACAAA	CCAAATCAGA	1020
CTCTCTTTTT	TCAACTGGAA	AACTCTCTCC	TGTCAAGGAA	CTTTCGTTGA	CCATACCTAA	1080
ACCTGAAACT	ACTTGTCCAT	CAAACAGAAT	TTCATTTCCT	TGAGATAAGA	TCAAGACATC	1140
TCCTATTTGA	ACATCGGAAC	TCTTGATACT	AACAACCGTA	TCGCCCTGTA	CTAGGAATAC	1200
ATCGCTCTCT	TTTGCAAGAA	GACTCTGTTC	TAAATCTGTT	GCAGTTTTTT	TCAAGGACCA	1260
CTGATCTAAA	TGATTCCCCA	AATCAAGCAT	AAACATGATA	TTGCTAGCTG	TCTTGGATTG	. 1320
GTTCATAAAC	AAAGACAATA	AAATAGCCGA	ACAGTCCAAG	ACTTCCATCG	TTAGTYCCTT	1380
ACGCGCTAGT	GTTTGATAGG	CTTCTCTAAT	ATAACCCAAA	GCCTGATAAC	AAGTCCATAT	1440
ATAGCGAATA	GGATACGGCA	CAAAACTACG	AAAAAGTACA	CGCTTAACCG	CTGCACCTGA	1500
AACAATAGAA	TAAGCACTCT	CTTCTCTACG	AATGGGAAGA	GTCATCAACT	CAGAAACTTT	1560
CCCTTTATCA	ATTCTTTTTA	AAAAGGCTTC	TGCATTATCT	AATACAGAAA	AGCCTTCTTT	1620
TATGCGTAGA	GTAAAGTGCT	GTTGATCCAT	GTAAAACTGG	ATAGACTCAA	TCCCCTTTTC	1680
ATCTCTCGCC	AAGGAACGAA	GATAGTCTTG	AATATCCAAG	GTAAGTGAAA	AAGAAGATGA	1740
TAGTCCGATA	TGTTGGTATC	CTCTATGTAG	CACTTTAAAA	GACATATTAT	TCACCTATAA	1800
GGCTATCTAA	TTGCTCTTCT	TTTTTCTCTT	GCTCGTACAA	ATATTTGGCA	TCTTGCAAGA	1860
CATCGTCTCC	ATGTTGCTTC	ACAACAGAAA	CAGATGCATC	TAGCTCGTCT	TTCAACTTGT	1920
AAGCCTTAGC	CAAAGCTTTA	GAATAACCTT	TTTTAGCTTC	CTTACTTGCT	AAGATTTTCA	1980

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AACCAAGGGT ACCAAATGCG ACACCACCCA AAAATAATGA AGATTTTTTC GCAACTTTTC	2040
CAACGGTTAA TACTTCTTTT AACATAGGG	2069
(2) INFORMATION FOR SEQ ID NO: 175:	

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 4597 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 175:

AAATCTTGCG	CAATAAAGCT	CATCTCCATC	TCCCGATTGA	AACAGTCACT	CCCCGGACTG	60
TTTCAACGTC	CCAAGACATA	ATCTTAGGCA	GATTTCTAAA	ATTACACTCA	AAGTGGAAGT	120
CATTGAGCTT	TCGAATGACA	GTTGAAGTTG	AAATGGCCAG	CTGATGGGCA	ATATCGGTCA	180
TAGAAATCTT	TTCAATTAAC	TTTTGCGCAA	TCTTTTGGTT	GATAATACGA	GGAATTTGGT	240
GATTTTTCTT	GACGATAGAA	GTTTCAGCGA	CCATCATTTT	CAAGCAATGA	TAGCACTTAA	300
AACGACGTTT	TCTAAGGAGA	ATTCTAGTAG	GCATACCAGT	CGTTTCAAGG	TAAGGAATTT	360
TATAGGGTCT	TTAATGTCTA	GTAATTTTGT	GATAAAATGT	AATTGTTCCA	TATGATTCTT	420
TCTAATGAGT	TGTTTTGTCG	CTTTTCATTA	TAGATCTTAT	GGGACTTTTT	TTCTACCCAA	480
AATAGGCTCC	ATAATATCCA	TAGGGAATTT	ACCCACTACA	AATATTATAG	AGCCCAAAGT	540
TTTAGGTCGC	TTGATAATAT	GCGTTTTTTG	AATTTTATAG	ACTGCTCGTT	TAAACTCTAT	600
TTACTTCGTA	CCTTCTGGAG	CGAGACGGAA	TATTAGTCAC	ATACAAAATG	AGTACTATTA	660
GGATTTTATT	TTCATGTACA	ATTTCAGCCA	GTCTTGTTAT	AATCAGCCTA	TAGGAATCAA	720
GGAGGTGACT	CTTATGGCTG	TTTTTGTGTC	TTTGGATGGA	ATTGTGGTAG	AAGTCCTTGA	780
TGTCTTTTCT	TCTTTTAATG	GGGATAGTGA	GTTTTTCTTG	TGTATAGCAT	TTTGAATCTG	840
GAATAGGACG	CCATGACTGC	TAAAAGATTT	СТАТАААТТА	ATTTGATTTT	ССТААТСААТ	900
TTGTTCATAT	CTTATTTCAT	TCCACTATAA	ACGTCTTAAA	GACAAGAGTC	AGTTTGTTAT	960
GGAACGCTCT	CAGTTCGAGG	AGATGTTCCA	ACTTCAAAGT	AGTCGCTTGA	CGACGCAAGA	1020
AAAATTACAA	TTGTTTACCT	CTGTGTTTGC	TGGCCGTTAT	GATGTTTATG	CTAAGAATTT	1080
TATCAATGAA	CAAGGGAAAA	TTCAGTATTT	TCCTTCCTAT	GATTATGGTT	GGAAGCAGTT	1140
GCCACCTGAA	AAACGGAGTT	TCCAGACATT	GACGAACTCC	GTTTTGAAAT	CTCATTTTCG	1200
TGGGGAGGCA	GCTATCGGTA	TCTTTCCTAT	GCACTTAGAT	GATAGCTGTT	ATTTTTTGGT	1260

			1100			
ACTGGATTTG	GATGAAGGAG	ATTGGAAAGA	AGCTGGTTTA	ACCATTCGAA	GAATAGCCAG	1320
GGAACGCCAG	ATGGAAGCCC	ATTTAGAGAT	TTCTCGTTCG	GGTCACGGAC	TCCATATTTG	1380
GTTCTTCTTT	GAGGAAGCGA	TTCCGAGTCG	AGAGGCTCGC	TTGTTTGGAA	AGAAACTGAT	1440
AGAACTGGCA	ATGCAGGAAA	GTATGCAACT	GTCCTTTGAT	TCTTTTGATC	GCATGTTTCC	1500
AAATCAGGAT	GTCCTTCCTA	AGGGGGGATT	TGGAAATTTG	ATTGCCTTGC	CTTTTCAAGG	1560
AGAAGCTTAC	CATCAAGGGC	GAACGGTCTT	TGTGGATGAA	CAGTTTCAGC	CTTATGAAGA	1620
CCAATGGAGG	TATCTACAAG	AAATTCAGAG	GATTTCAACT	GCTAAAGTGG	CACTGTTAAT	1680
CCAAGAGGAG	TTAGGCAAGC	AAGAATTGGA	TAAGGAGTTG	AAGGTCGTTT	ТАТССААТАТ	1740
GATCCAACTT	GAAAAATCGT	CTGTGACATC	CAAGGCACTT	TTTTCTTGAA	AAATATGGCT	1800
PCCTTTTCTA	ATCCCGAATT	TTATAGTAGA	TTGAAACTAG	AATAGTACAC	CTCTGCTTCT	1860
AAAACATTGT	TAGAAATCGA	TTTGACTTTC	CTGATCGATT	TGTCCTGTTA	TTATTTCATT	1920
TTACTATATT	TAAAGCAGGC	TATGCGACAG	CCAACCTATC	AAATTCCTGA	GAGAATGTAT	1980
PTATTTGGAG	AATCCGATCA	TTATTTATGG	TTGCCAAGAG	GTTTGCTGTA	TCCATTGCAA	2040
GATAAATTTA	AGCAGGTATC	TGTGGAAGAT	AGGAGAAAGG	TACAAAGGTC	TATTAGCGTG	2100
GAATTTAAGG	GAGAACTCAC	TTTTGAGCAA	GAGTTAGCCC	TGTCAGATAT	GACTTCTAAA	2160
GAAAATGGTT	TACTTCATGC	GGAGACTGGT	TTTGGGAAGA	CCGTTTTAGG	TGCTGCTCTT	2220
ATCTCTGAAC	GGAAAACAAA	AACAATTATT	CTAGTCCATA	ATAAGCAACT	CTTAGACCAA	2280
IGGCTAGATC	GCTTAAACTG	CTTTTTGACT	TTCGAAGAGG	AGGAGGCTAT	CCGTTATACG	2340
GCATCAGGTC	GTGAAAAGGT	AATCGGCTAT	GTTGGGCAGT	ACGGTGGGAC	TAAGAAATGG	2400
CTGAGTAAAC	TGGTTGATGT	CGTTATGATT	CAATCTCTAT	TTAAGTTGGA	AAATAGTCAA	2460
AGTCTTTTGG	ATGAGTATGA	GATGATGATT	GTGGATGAGT	GTCATCATGT	CTCTGCCTTG	2520
atgtttgaaa	AAGTTGTTGC	TCAGTTTAGA	GGGAAGTATC	TTTACGGTTT	GACGGCTACG	2580
CCTGAGCGTA	AGAATGGTCA	TGAGCCTATT	GTTTTTCAGA	GAATTGGTGA	GATACTCCAT	2640
ACTGCTGATA	AGAGGGAAAC	GGATTTTAAA	CGGCAATTGC	AATTAAGATT	CACTTCTTTT	2700
GGTCATTTGG	AAATTGAAAA	GACCAAAGCA	AGTAATTTTA	TACAGCTTAG	TGATTGGATT	2760
GCTACTGACT	CAGTGAGGAA	TCAGATGATT	CTCAAGGATA	TTCTAGCCCA	AGTGGCAGAA	2820
GGACGGAATA	TCTTGGTTTT	AGTTAATCGA	ATTCAACAGA	TAGATGTCTT	TGAAAAATTA	2880
PTGAAAGAGA	aagaggttga	TGACTGTTAC	ATTATTAGCG	GAAAAACCAA	AGTCCGAGAG	2940
AGAACGAGTT	TACTGGAGAC	GTTAGAACAG	TTAGATAAAG	GGTTTGTTTT	GTTGTCTACT	3000
CAAAATACA	TTCCCCAACC	ע נואורי) על ליונאואנונוו	CCTCACTTCC	a ca cccmmam	CTTCCCACCA	3060

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CCTTTTCTT	GGAAAAATAA	TTTGATTCAG	TATGCAGGTC	GGATTCATAG	AAACTACAAG	3120
GATAAGTCTT	TGGTGCGTAT	TTTCGATTAT	GTGGATATTC	ATGTTCCTTA	TTTAGAAAAG	3180
ATGTTTCAGA	AACGACAAGT	AGCTTATCGA	AAGATGGATT	ATCGTGTCAT	CGAGGGTGAG	3240
GAGAAACAAT	TCGTTTATGT	TGATAGTAGA	TATGAGAAGG	TGTTGAGAGA	GGACTTAGCA	3300
GGGAAAGAC	AGGAATGTCT	GCTTATTTTA	CCTTATGTGC	ACCAGACAAA	ACTGATGAAT	3360
ГТТСТААААG	AATTTAGGAT	TAGTCAAATT	GAGATATGTA	TACCAGAGAC	GGTTGCAAAT	3420
AAGCATGGC	TAGACCAGTT	GAAGAGCCAG	AAAATTAAAG	TGTCTTTTAC	TCAATCAAAA	3480
ATAGTAACGC	CTATTCTTTT	GGTGAATAAG	ACTATTGTTT	GGTATGGTGC	AATGCCATTA	3540
TTAGGGAAGG	TAGATGAGAT	GACCATATTA	CGTTTGGAAT	CAGCTAGTAT	AGTTTCTGAA	3600
CTAGTGGCAG	GTTTACGATA	GAGAAAATTT	TTAAAAATTT	CTATGTATGA	TTTTCATTTC	3660
TTAGTGAGA	CTGTTGCCAT	TATCACATTC	GAATCACACA	AAATAAAAA	ATTTTTATAA	3720
STACTTGACA	aatagattga	AATATCATAA	AATAAAAACG	GTTACAGAGT	TATTAATTAT	3780
PTAAGCTTCA	TGTCACCATT	AAAAATTGAA	ATAAAAGGAT	GTTATCACTA	ATACAAGTGA	3840
CAGGAACCT	ATTTAATCAC	ATCAGAAGAA	GTTTCTTGAT	GTTTTTAAGT	AGGTTCCTTT	3900
AAAATTTTAT	GGGAAATTTT	ATGATCATAA	AACGAATACT	AAACCACAAT	GCCGTAATTG	3960
GCAAAGTAA	AAAAGATATC	GATATTCTTC	TTTTTGGAAG	GGGAATAGCT	TTTGGAAGAA	4020
laactggaga	TAAAGTAAAT	CCAATTGATA	TTGAGAAAAG	TTTTTTTCTC	AAAAATAGAG	4080
TAATATGAC	CCGTTTTACA	GAGATGTTTA	TTAACGTTCC	TTTGGAGTTG	GTGTACATCA	4140
CGAAAAAAT	AATTAACCTA	GGTAAAATAA	CATTGGGTAA	TAATTTTGAT	GAAATTATCT	4200
TTTAATTAT	AACGGATCAT	ATTTCTTCGA	GCATAGAACG	TTATAAAGAA	GGGATTATTA	4260
TTCGAATCC	CCTACGCTGG	GAAATATCGA	AATATTATAA	AGAAGAATTT	GAACTTGGGA	4320
AAGGGCTTT	ACAAATAATA	AAAAAAGAGT	TAGGTATTGA	ACTTCCAATT	GACGAAGCTG	4380
ATTCATAGC	GCTACATTTT	GTTAATGCTA	ATTTAGAAAA	TAATTTTCAA	GAGTCGTATA	4440
AATCACTGA	AATAATTATG	GGAATTGAGA	AAATCATTCA	AGATTTCTAT	TGTACTGAGT	4500
TAACCAAGA	TTCTATTGAT	TATTATAGAT	TCATAACTCA	TATGAAATTA	TTTGCCCATC	4560
CTTGGTTGA	GAATACAACT	TATTGTGACG	ATGATGA			4597

(2) INFORMATION FOR SEQ ID NO: 176:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1984 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

1108

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 176:

CGGCTTATTT	ACTACTTGTT	ССАТСАТАТА	TGGAATATGC	ATGAAACCTG	CTCTCATATT	60
AGGGAATTTT	TTATCCACTA	AATAAAGAGC	TTGGTACATC	AAATGATTGC	AAACAAAGGT	120
TCCTGCACTA	TTGGATACAA	CTGCCGGAAG	TCCCTGTTTT	TTGATAGCTT	GTACCATCGC	180
TTTGATAGGT	AAACTACTAA	AATAGGCCGA	TGCTCCATCA	ATACGAATCG	GTGTATCAAT	240
TGGTTGATTG	CCTTCGTTAT	CAGGTATGCG	AGCATCATCT	TGATTAATAG	CCACTCGTTC	300
aggtgttaag	CCGGTCCTGC	CGCCTGCTTG	TCCAATACAA	AGTACAGCAT	CTGGTTGATA	360
TCGTAATATT	TCTGCCTCTA	AAACTTCTGA	CGACTTATAA	AAAACCGTTG	GAATTTCTAC	420
CCAGCGAACT	TCAGCCCCAT	TAATCTCAGA	TGGTAATAAT	TTTACAGCCT	CCAAAGCTGG	480
ATTAATCTTT	TCACCTCCAA	AAGGATTAAA	ACCTGTAACC	AATATTTTCA	TTTTATTTC	540
CTTTACTAAA	ATGCGAGAAA	GTACATTAAG	AATATGTGAA	TAACAATCAT	TACTAGAGCA	600
ACACCTGCTT	GAGCCTTTAT	AACGCCATTC	TGATCTTTCA	TATCCATCAA	TGCTGCTGGT	660
AGAGCGTTAA	AATTAGCAGC	CATTGGGGTC	AATAAGGTCC	CACAATAACC	TGCTGTCATG	720
GCAAGAGCAC	CAGCCACAAT	TGGATTAGCT	CCCAGAGCAA	ATACAAAGGG	AACTCCAACA	780
CCTGCTGTAA	TAACGGTGAA	TGCTGCAAAA	GCATTTCCCA	TAATCATTGT	GAATAGAACC	840
ATTCCAAGAA	CATAGGCCAA	AACTCCTATA	AAGCGACTAT	CTGAAGGAAC	AATACCGCTA	900
ATCAGATGAG	AGATAACATC	ACCAACACCT	GCTACAGTAA	AAATAGCCCC	CAAAGCCCCT	960
AATAATTGAG	GAACAATCCC	ACTTGTTGAA	ACTTGCTGAG	TCATTCGATT	ATTTTCTGAT	1020
AACAGACTCT	TAGGGTGACT	ATTGGTAATC	ACAAGAACAG	AAATTGTAGC	AAACAAGGCG	1080
GCAAGGCTAA	TCGAAATCTT	GCTAAATTCT	GGAATCATTT	GCGCTAAGAC	CAACGCAAGT	1140
ATTGCCATCA	GCATAACTGG	AATAAAAATT	TTATTTTTCA	ACCTGTTAGA	TTCAATATTG	1200
GCTTTCATTT	CATCTAAGGA	TGGCAAGGTT	CCGATACGGA	CTTGCTTAAA	CAATGTTAAC	1260
AGCGATAATA	GGATTACAAT	AATACCAATA	CTCATATTTG	GCATATAGGA	ACCACCTATA	1320
AACGTAATAG	ACAATAGAGT	CCAAAATGCA	GATGTCCCAA	GTCGAACTGG	GTTTGTTTTA	1380
TCTTTATAAC	TACAATAGGC	TGTATGGAGA	AATTGACAAC	CAATCACAAT	ATAGGTCAAC	1440
TCTAATAGTT	GCTTTGCCAA	CTCTGTCATT	TTTGTTCTCC	TCCCCTAGTC	TTTTTTGATA	1500
TCAATTTTTT	ATCAAATAAA	TAATTATAAA	TCCCCACTAC	AATAAGTGTT	ATAACAGCAA	1560
CAATAATAGA	TGTAGAAGCA	ATCCCTGCAT	AATTGCTTTC	ATAGCCTAAC	TGATCTAATG	1620

TTCCCCCTAT	CAAGAGGACT	CCCCCAGCAC	CTACAAACGT	ATTTTGAGCA	AAGAAATTTC	168
CAAAATTTTC	ATTCGCAGCC	GCACGCGCTT	TTATTGTCTC	ATCTTCAACC	TCTGTTAACT	174
TTCTACCTAA	TTGAGACTCT	GCAGCTGCTT	CTCCCATAGG	TTGAACCAAA	GGTCTGACAA	180
ACTGAGGGTG	TCCTCCTAGA	CGAATTGAAA	AGAAACCAGC	TAACTCTCGA	ATAAAGAAAT	1860
AAACTGTATA	GAAGTTTCCA	ACTGTCAGAC	CTTTAATCTT	TCGAATCAAA	TCGATTGATC	1920
GTTGCTTGAG	TCCAAAGGTT	TCTGACAGCC	CCACAAGAGG	CAAGGTAACC	ATAAAAATCG	1980
TGAGCACTCG	CTGATTGCTA	AATTCTTTTC	CCAAAATCTC	CAAAAATTCA	ACGAGAGAAA	2046
CACCTGAAAC	TAAAGCTGTA	ACCAAACCAG	CTAAGACTAC	TGTTGCAATT	GTATCAAATT	2100
AAATAAATT	ACCCACAACA	ATGATTGCTA	TTCCTATTAA	TCTAATCCAC	TCCATATCAA	2160
ACTCCTTTAT	ATTCAAAATG	ACAGTATTT	ATTTTAAAAT	TCAAGATCAA	TACCATTCCT	2220
TATTTAATGT	GTTTTTCTAG	TTCTTTTTGG	TATTTGCTAT	TGGATTCCAA	TTTTTCTTTT	2280
TGCCATTTTT	TAAAAACCTC	GTTATATTCT	TTTGTTGTAA	СААТАТСТТТ	TTGCAATTTC	2340
ATTCCTTTAA	AGATATATGG	ATCCCCCTTA	ATACCAACTT	GTGAGTATGG	TTTTGAGAAT	2400
GGTACTACGT	TACTTACAAC	TGGAGAACCA	CCAGATGAAG	CTGTTGGCAT	CAATAATGAA	2460
CTATCTGTCG	ACCAAGCTTG	AGCTTTGGCA	TATTTTTCAT	ATCTTTTCTC	TAGGTCAGTG	2520
GTCTCAGAAA	CAGCATCTTC	TAACAATTTC	TTATATTTAT	CCAAACCAGG	TTTAGCTACA	2580
ACATCCTTAT	CTTTTCCTTT	CGTAATACCA	AGGTGTTTCA	TGGCAGAACC	AGATTTTGGA	2640
TCTATAATAT	TCAAGTGAGA	CGCTGGATCT	TGATAGCTTG	GAGCCCATCC	TGTACTGTTC	2700
AAATCATAGT	CTTTTTGAGA	AGGAGCAACA	TTGCCGTATT	TATCATTTTC	CATCAAACCA	2760
TCAATAACAT	TTCCAATAAC	GTCTGTCCTC	GATGTTCGAG	TCGCTATACT	GTAGCCCAAT	2820
GATGCTGGAT	CTACTGCATA	GACATAAGAA	AATGTTGTCG	GTGCATCTGC	TTCTTTATCA	2880
GTTTTTCCAC	AAGCCACTAA	AATAGCTGAC	GTGCTCAGGA	CCACTCCTGC	TGTTAAGAGC	2940
CACTTTTTCT	ATTTCATAAA	GAATCTCCTT	TGGTTTATTT	TAATCTACTT	TTACAATCCA	3000
ACCTTCTGGC	GCTTCAATAT	CGCCAAACTG	AATACCCGTC	AATTCATTÄT	ATAATTTACG	3060
CGTCACAGGA	CCTACTTCTG	TTTCACTATA	GAATACATGG	AAATCATCAC	CATGTTGAAT	3120
ACCTCCAATT	GGAGAAATAA	CCGCTGCTGT	ACCACAGGCA	CCTGCCTCTA	CAAAACGGTC	3180
AAGATTATCA	ATTGGAACAT	CACCCTCAAT	AGGAGTTAAT	CCCAAGCGAT	GTTCTGCCAA	3240
ATAAAGCAAG	GAATACTTGG	TAATAGATGG	CAAGATAGAT	GGACTCAATG	GTGTTACAAA	3300
TTCATTATCA	GCTGTAATTC	CAAAGAAGTT	AGCTGATCCG	ACTTCTTCAA	TCTTTGTATG	3360

			1110			
AGTTGATGGG	TCCAGATAGA	TAACATCTGA	GAAATGACGT	GACTTGGCCA	TTTTTCCTGG	3420
TAAGAGACTT	GCAGCATAGT	TTCCACCAAC	CTTAGCCGCA	CCTGTACCAT	TTGGTGCTGC	3480
ACGGTCGTAC	TCATCCTGAA	TCAAGAAGTT	GGTTGGGACC	AAACCACCTT	TAAAGTAATT	3540
TCCAACTGGC	ATAGCAAAGA	TGGTGAAAAT	GTACTCTTCT	GCCGGTTTTA	CCCCGATAAT	3600
ATCTCCGACA	CCAATCAAAA	GAGGGCGAAG	ATATAAGGTT	CCACCTGTTC	CGTATGGTGG	3660
TACGTATTCT	TCATTCGCAC	GGACAACTGC	TTTACAAGCT	TCTACAAACA	TGTCTGTCGG	3720
Aacttgtggc	ATCAAGAGAC	GGTCACATGT	ACGTTGCAGA	CGTTTAGCAT	TTTCATCAGG	3780
ACGGAACAGT	TGAACACTGC	CATCCTTAGT	ACGATAAGCT	TTCAAACCTT	CAAATGCTTG	3840
TTGTCCATAG	TGAAGACTTG	GAGAAGACTC	TGAAATATGC	AAAGTTGCAT	CCTCTGTAAG	3900
CTCTCCTTGA	TCCCATTGTC	CATTTTTGAA	ATGAGCAAGA	TAGCGATAAG	GTAATTTCAT	3960
ATAGGAAAAA	CCGAGGTTTT	CCGG			•	3984

(2) INFORMATION FOR SEQ ID NO: 177:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8703 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 177:

TATCTAATTA TTGGTTTTTA TCGCTGACCT TGGCTATTGT TGGGGTTGTT TTACCCTTGT 60 TGCCTACAAC ACCTTTCCTT TTGTTGTCTA TTGCTTGTTT CTCCAGAAGT TCCAAGCGAT 120 TCGAAGATTG GCTTTATCAT ACCAAGCTCT' ATCAAGCATA TGTAGCTGAT TTTCGTGAGA 180 CCAAGTCTAT TGCGCGTGAA CGAAAGAAAA AAATCATCGT CTCTATCTAC GTCTTGATGG 240 GAATTTCTAT TTATTTTGCA CCTCTTTTAC CAGTCAAAAT CGGTCTGGGT GCTTTGACCA 300 TCTTTATTAC TTATTATCTC TTCAAGGTCA TTCCAGACAA AGAATAGTTA AAACAGTAGT 360 TATTTGCCTT GATAAAATTG AAAGCATATT CATAACAATA TGATATAATA AAATTGAAGT 420 AATATTCAAG GAGAATCAAA TGATTTACGA ATTTTGTGCT GAAAATGTGA CTTTACTTGA 480 AAAAGCGATG CAGGCTGGAG CTCGTCGGAT TGAACTCTGT GATAATCTAG CAGTTGGTGG 540 GACAACACCC AGCTATGGAG TGACTAAGGC AGCGGTTGAA CTGGCAGCTA ACTACGATAC 600 AACCATCATG ACCATGATTC GGCCACGTGG TGGTGACTTT GTCTATAATG ACCTAGAAAT 660 TGCTATCATG CTAGAAGACA TTCGTTTGAC TGCTCAGGCT GGAAGTCAAG GGGTTGTATT 720 TGGAGCTTTA ACTGCTGATA AAAAGTTGGA TAAGCCTAAT CTGGAAAAGT TAATTGCTGC 780

ATCAAAAGGA	ATGGAAATTG	TCTTTCACAT	GGCCTTTGAT	GAACTAAGTG	ATGAAGATCA	840
AGCGGAAGCT	ATTGACTGGC	TCAGTCAAGC	CGGTGTCACT	CGTATCCTAA	CTCGTGCTGG	900
TGTGTCTGGC	GACTCCTTAG	AAAAACGTTT	TGTTCACTAT	CACAGAATTT	TGGAGTACGC	960
TAAAGGTAAA	ATTGAAATTC	TACCAGGTGG	GGGGATTGAC	CTTGAAAACC	GTCAAACCTT	1020
TATCGACCAG	GTGGGGGTAA	CACAATTGCA	TGGTACTAAG	GTTGTTTTT	AAAAAATAGA	1080
AAGGAACTGC	TAGCTTTGGG	TAGCAGTTTT	CACTTATGTT	TGAAATTTTT	AAATCCTATC	1140
AATTTAATCA	AGAAAAGGCT	CATGATTATG	GTTTTATAGA	AAATAGCGAA	GTCTGGACAT	1200
ATAGTTGCCA	GATTTTGCAA	GGTGACTTTG	TCATGACTGT	GTCCATCACT	GCTGATAATG	1260
TGAACTTTCA	AGTCTTTGAC	CAAGAGACTG	GTGACCTCTA	TCCTCACGTT	TATATGGAAA	1320
GCATGAGGGG	AAGTTTTGTC	GGAAATGTCC	GTGAGGCTTG	TCTGGAGATT	CTTTACCAGA	1380
TTCGGAAGGC	TTGTTTTGAT	GTGCAAGATT	TTATCTGTCA	TCAGACTAAG	CGTATCATGA	1440
CTCAAGTTCA	GGAAAAGTAT	GGAAACCAGT	TGGAGTATCT	GTGGGAAAAA	TCGCCTGATA	1500
CAGCTGTATT	GCGCCATGAA	GGCAATCAAA	AGTGGTATGC	CGTCTTGATG	AAAATCTCTT	1560
GGAATAAGCT	GGAAAAGGGC	AGAGAAGGAC	AAGTGGAAGC	AGTCAACCTC	AAGCATGACC	1620
AAGTAGCTAA	TTTGCTTTCA	CAAAAGGGGA	TTTATCCAGC	CTTCCATATG	AGCAAGCGCT	1680
ACTGGATTAG	TGTGTCCCTT	GATGATACTT	TATCAGATGA	AGAAGTACTG	GAATTGATAG	1740
AAAAAAGTTG	GAACTTAACC	TCTAAAAAAT	GAAATATTTT	AATAATTTTC	ATGAACTTTC	1800
AATTAGCTAA	ATATTCTTTA	CTGAAGAGAT	TTTTAGAAAA	TATAGGATTT	ACCACACTAG	1860
AGGAATATGG	TGCCATCTTC	AAATACCTGA	TTGAGAATGT	CAAGACGGAT	CGTCAGATCA	1920
TCTATTCGCC	TCACTGTCAT	GATGACCTCG	GAATGGCAGT	GGCAAATAGC	CTTGCTGCTG	1980
TCAÁGAATGG	TGCAGGACGT	GTTGAAGGGA	CTATCAATGG	TATTAGGGAG	CGAGCTGAAA	2040
ATGCTGCTTT	GGAAGAAATT	GCAGTGGCTC	TCAATATTCG	CCAAGATTAC	TACCAAGTAG	2100
AAACCAGTAT	TGTCCTAAAT	GAGACCATCA	ATACGTCAGA	AATGGTTTCT	CGCTTCTCTG	2160
GTATTCCAGT	TCCTAAAAAC	AAAGCCGTCG	TTGGTGGCAA	TACCTTCTCC	CACGAATCTG	2220
GTATTCACCA	AGATGGAGTC	CTTAAAAATC	CTCTCACTTA	TGAGATCATC	ACACCTGAAT	2280
TGGTTGGTGT	TAAGATTCTG	CTTGGAAAAT	TATCTGGTCG	CCATGCTTTT	GTTGAGAAAC	2340
TGAGAGAATT	GGCCCTAGAT	TTTACAGAAG	AGGATATCAA	ACCACTCTTT	GCTAAGTTCA	2400
AGGCACTGGT	CGATAAGAAG	CAAGAAATCA	CAGATGCAGA	TATTCGAGCT	TTGGTAGCTG	2460
GAACCATGGT	TGAAAATCCA	GAAGGCTTCC	ACTTTGATGA	TTTACAACTT	CAAACTCATG	2520

			1112			
CAGATAATGA	CATTGAAGCG	CTCGTTAGCC	TAGCCAATAT	GGATGGTGAG	AAAGTCGAAT	2580
TTAATGCGAC	AGGGCAAGGT	TCCGTTGAAG	CAATCTTTAA	TGCTATCGAT	AAGTTCTTTA	2640
ACCAATCTGT	TCGTTTGGTG	TCCTACACTA	TCGATGCGGT	AACAGATGGA	ATCGATACCC	2700
AGGATCGGGT	TTTGGTCACT	GTTGAAAACA	GAGATACAGA	AACCATCTTT	AATGCAGCAG	2760
GGCTTGATTT	TGATGTGTTG	AAGGCTTCTG	CTATTGTCTA	TATAAACGCT	AATACCTTTG	2820
TTCAAAAAGA	GAATGCAGGT	GAGATGGGAC	GCAGTGTTTC	TTACCACGAT	ATGCCTAGTG	2880
TGTAAAGGAG	AAGGCTATGG	CAAAGAAAAT	AGTAGCTCTA	GCAGGAGACG	GAATTGGCCC	2940
AGAAATCATG	GAGGTTGGTT	TAGAAGTTCT	GGAGGCTCTA	GCTGAAAAA	CAGGTTTTGA	3000
CTATGAGATT	GACAGACGAC	CGTTCGGAGG	TGCAGATATT	GATGCAGCAT	GACCTCCCTT	3060
ACCTGATGAA	ACCCTTAAGG	CAAGTAGGGA	AGCAGATGCT	ATCCTACTAG	TAGCTATCGG	3120
TAGTCCTCAG	TATGATGGAG	CAGTGGTTCG	CCCTGAACAA	GGCCTGATGG	CTCTCCGTAA	3180
GGAACTCAAT	CTTTACGCTA	ATATTCGTCC	TGTAAAAATC	TTTGACAGTC	TCAAGCATTT	3240
GTCACCACTC	AAACTGGAAC	GAATTGCTGG	TGTAGACTTT	GTCGTGGTGC	GTGAATTGAC	3300
AGGCGGGATT	TACTTTGGAT	ATCATATTCT	TGAAGAGCGC	AATGCGCGTG	ATATCAACGA	3360
CTATAGCTAT	GAGGAAGTGG	AGCGGATTAT	TCGCAAAGCC	TTTGAAATTG	CAAGAAATCG	3420
CAGAAAAATC	GTTACTAGTA	TCGATAAGCA	AAATGTTCTA	GCGACCTCAA	AACTCTGGCG	3480
GAAAGTAGCT	GAGGAAGTCG	CACAGGATTT	CCCAGATGTA	ACCTTGGAAC	ATCAGCTGGT	3540
AGACTCAGCT	GCTATGCTTA	TGATTACCAA	TCCTGCTAAG	TTTGATGTTA	TTGTAACGGA	3600
GAATCTTTTT	GGAGATATTT	TATCTGATGA	ATCAAGCGTC	TTATCTGGTA	CACTTGGGGT	3660
TATGCCATCA	GCCAGTCATT	CTGAAAATGG	ACCAAGTCTC	TATGAACCTA	TTCACGGTTC	3720
AGCACCTGAT	ATTGCAGGTC	AAGGAATTGC	CAATCCTATT	TCCATGATTT	TATCAGTTTC	3780
CATGATGTTG	AGAGATAGTT	TCGGACGTTA	TGAGGATGCA	GAGCGTATCA	AACGTGCTGT	3840
TGAGACAAGT	CTGGCGGCAG	GAATTTTAAC	GAGAGATATA	GGAGGTCAGG	CTTCAACAAA	3900
GGAAATGACG	GAAGCTATTA	TTGCAAGGTT	ATGAAGTTAG	ACGAAAAAAT	TACTCTAGTC	3960
CTTTTGATTT	GGAATGTCAT	CATTTTCTTG	ATTTATGGTA	TTGACAAATC	TAAGGCAAGG	4020
AGAAGAGTTT	GGCGCATCCC	TGAGAAAATC	TTACTTATTT	TAGCCTTTAC	TTTTGGTGGT	4080
TTTGGTGCCT	GGCTAGCAGG	AATCATCTTT	CACCACAAGA	CTCGAAAATG	GTACTTTAAA	4140
ATAGTTTGGT	TTCTTGGGAT	GGTGACCACA	CTAGTAGCCT	TATATTTTAT	TTGGAGGTAA	4200
TGGATGGCAG	GGTCTTCGAG	GGAATACGCT	GCTTGGGCTC	TAGCGGACTA	TGGTTTTAAG	4260
GTCGTGATTG	CAGGATCTTT	CGGTGACATT	CATTACAATA	ATGAACTCAA	TAATGGCATG	4320

TTGCCAATCG	TTCAGCCTAG	AGAGGTTAGA	GAGAAACTAG	CCCAGCTAAA	ACCAACCGAC	4380
CAGGTAACTG	TGGACTTGGA	ACAACAAAAA	ATCATCTCAC	CAGTTGAAGA	ATTCACCTTC	4440
GAGATAGATA	GCGAGTGGAA	ACATAAACTC	CTAAATAGTT	TGGATGATAT	CGGTATTACC	4500
TTGCAGTATG	AAGAGTTGAT	TGCTGCTTAT	GAAAAACAAC	GACCAGCCTA	CTGGCAGGAT	4560
TAGAAAAAT	AGAAAAGGAG	ATATAGTAAA	CTGAAATAAG	ATGTAAACAA	ATGAATTGGA	4620
GCTTAACATC	CATTTCCAGC	AATTTTT AG	AAACTACAGT	GGACTATTCT	GGATTCAACA	4680
CATTATAAAA	TTATGACAAA	ACACATTCAC	AAGAAGGCTA	CGACATTTTA	AAAGGTGAGG	4740
GCGGATGTAT	CGTTTGCCCT	ACTAAAGTTG	GTTACATTAT	CATGACCAGT	GACAAGGCAG	4800
GACTTGAGCG	TAAGTTCGCA	GCCAAAGAAC	GTAAGCGTAA	CAAACCAGGT	GTTGTTCTCT	4860
GCGGTAGCAT	GGATGAACTT	TGCGCTTTAG	CGCAACTCAA	CCCAGAAATT	GAAGCATTCT	4920
actaaaaaca	TTGGGATGAA	GATATTCTTC	TTGGTTGTAT	CCTTCCTTGG	AAACCAGAAG	4980
CCTTTGAAAA	ACTCAAAGCA	TACGGGGATG	GCCGTGAAGA	ACTTATTACT	GATGTACGTG	5040
GTACTAGCTG	TTTTGTTATC	AAGTTTGGAA	AAGCAGGTGA	ACAATTGGCT	GCCAAGCTTT	5100
GGGAAGAAGG	TAAAATGGTC	TACGCCTCAT	CTGCTTCAAT	GACAAAACGA	TTGAAACTCG	5160
CTATGAGCAA	GGTGTAATGG	TGTCTATGGT	CGATAAGGAC	GGCAAACTCA	TCCCAGAACA	5220
AGGAGGAGCA	CGTTCAACTT	CACCAGCTCC	AGTTGTGATC	CGTAAAGGGC	TTGACATTGA	5280
TAAAATCATG	ATGCACCTGT	CAGATACTTT	TAACTCATGG	GACTACCGTC	AGGTTGAGTA	5340
TTATTAGGAT	AGAGAAGAAG	TCTAGTGTTA	TGAGATATTA	AAGCTCCTAA	CACTGGGCTT	5400
TTGTTTAGAA	TTTCTTTTCT	TTTTCTATAG	GATATGGTAT	TCTATGTAGA	AAATATATGT	5460
TAATAAGTAA	TGCCAATATT	TAAACATCAT	TAGTAAAAGG	AGTTAGATTG	ATGAATAAAA	5520
GAAAAGTTAG	TTTAGAAGAT	TTTTATAAAT	GGTATAGTCT	AAATAAAGAA	GAGTTATTAA	5580
ATAAGGCAAC	TGTTGGTGAA	AAGTTTAATG	АТАААТТААА	AGAAGAGTTT	CTCCAGGAAT	5640
GGCCTTTGGA	TAGGATTTTA	ACAATGTCAA	TCGATGAATA	TGTAATAGGA	AAGGGACAGC	5700
AAAATAAGTC	TTTATGCTAC	GCTCTTGAGA	AGGGAAAATA	CAAAAATCTA	TTTCTTGGAA	5760
TTTCTGGTGG	CTCAGCTTCA	AAATTTGGTA	·TTTATTGGAA	TAAAAAAACA	AACAAATATA	5820
AAGATCAAGC	TAATAATGAG	ATTTCAGAGT	TGGATCAGCG	ATTTTCAAAA	TTAAAATCAG	5880
ATTTGTATGA	AATTATCAAA	GAAGGTATTC	GTTTTAACTT	TGAAAATCCT	ATTTTTGATA	5940
TGAAAAGATC	AACAAATGAA	TTTATTGGTC	GTTCTGCTAT	GGTGACAAAA	TTACTTTGTA	6000
מישים מיש מישים	CCCACAMCCM	THE CHARGE CALC	መስ አስጥስ ምጥ አስ	TACTCACAAA	CAAMMMCCA	6060

			1114			
ACCACTTTGT	TTCTCAGACA	AATCAAGGTG	GACCTTATCT	GCAAAATCAT	AAAATAATTG	612
AACTGGTGTC	СААААСТТАТ	CCTGAGTTGG	AGCCATCGAA	ATTAGGAACT	ATGCTTTTTG	618
AGTATTCTAA	GCTTTTTATG	GAAAATAAGG	AAGACAATAG	TACAATGGAT	TCATCAAACA	624
ATTTTCGTCA	TCAATTAACT	CAATCTCTAT	TAAAGTCTCC	AAACCTCATC	CTCCGCGGTG	630
CTCCTGGCAC	GGGAAAAACT	TATCTTGCTA	AAGAAATTGC	TAAAGAATTA	ACGGATGGCA	636
ACGAAGATCA	AATCGGATTT	GTACAATTTC	ACCCATCATA	TGATTATACG	GATTTTGTAG	642
aaggttt aa g	ACCAGTATCA	AATGGGGATG	GAGCTATTGA	GTTTAGGCTA	CAGGACGGTA	648
TTTTTAÁAGA	TTTTTGTCAG	AAAGCAAAAG	AAACCCAATT	GATTGGAGGA	CAAGATAATT	654
TTGATGAGGC	TTGGGATTCT	TACTTAGAAT	ATATAAATGT	TGCTGAAGAA	AAAGAATATA	660
таасааааас	ATCTTACTTA	TCTGTTAATA	GTAGACAAAA	TTTGTCAGTA	AATTATGATA	666
GTGGTGTTCC	AGGATGGTCA	CTACCTAGCA	AATATGTTTA	CGAGTTGTAT	AAAGATAAAA	672
AATAATAA	GCAAGAATAC	TACAAAAGTG	GTGGAAAAAC	TGTCCTAGAA	ACATTGAGAA	6780
AGAGATTTGG	TTTGAAAGAC	TATGTTTCCC	CAACAGAAAT	TGATACTGAT	AAGAATTTTG	6840
TCTTCATCAT	CGATGAGATC	AATCGTGGGG	AGATTTCTAA	GATTTTTGGC	GAACTCTTTT	6900
TCTCTATCGA	CCCCGGCTAT	CGTGGTGAAA	AAGGAAGTGT	TTCTACCCAA	TATGCAAATC	696
TACACGAAAC	TGATGAAAAG	TTCTATATCC	CCGAAAATGT	TTACATCATC	GGAACTATGA	7020
ATGATATTGA	TCGTTCAGTG	GATACCTTTG	ATTTTGCTAT	GCGTCGTCGT	TTTCGTTTTG	7080
TTGAAGTTAC	TGTCGAGGGT	CAAGCTGGCA	TGTTGGATAA	AGAGTTGAAT	ATCCATGCAG	7146
AAGAAGCAAA	AATTCGTCTA	AGAAACTTGA	ACGCTGCTAT	CGAAAATATT	CAGGAATTAA	7200
ACAGTCATTA	TCATATTGGA	CCAAGTTATT	TTCTTAAGTT	GAAGGATGTA	GATTTTGACT	7260
ATGAATTACT	CTGGTCTGAT	TATATTAAGC	CTCTCCTAGA	AGACTACTTG	CGAGGTTCTT	7320
ATGATGAGGT	TGAAACTTTG	GAAACTTTGA	AAAAAGCATT	TGATCTGACA	AATAATGAGC	7380
AAAAAGATCA	GGCAGTAGCT	GATGACAATG	AAGGCGATGA	AAACGATGAT	GCGGATTACT	7440
GATAATCAAC	ACAAGATTAT	TAAAGAAAAA	TTTGTTGAAG	AATATCCTAA	ACTAAGCAAT	7500
CCTCTTTTAG	ACAGAACCTT	GGAAAGTCTA	TCCCAAGATG	AACGTATTTT	CATTTTTCCA	7560
AATGATTwGA	CTCATACTCC	TGATTTGGAT	AAGGACCAAA	AGATTTTTGA	AACAGTCAAT	7620
CAGAAAATCA	AGACAGGGAA	CGTGATTGGT	TTTCTTGGAT	ATGGTCAGGA	AAGATTAACG	7680
ATTTCCTCAC	GATTTTCTGA	TGAGAGTAAT	GACCACTTTT	TGCATTATCT	CTTAAACAAG	7740
GTTCTTCATA	TCAATCTCAC	TAGTTTAGAT	GTTGCTTTGT	CTCGTGAAGA	GAGGCTTTAT	7800
CAACTTTTGG	TGTATCTCTT	TCCCAAGTAT	CTACAAGCTG	CTATTCGAAA	AGGTCTTTAT	7860

1115

AAGGAATATC	ATCGATTTTC	TCATAACGAC	AGTCATGTTA	AGGGAGTGAT	TGATGTAAGA	7920
AACCATCTCA	AGAAAAATCT	TCCTTTCACG	GGAAATATTG	ĆCTACGCAAC	GAGAGAGTTC	7980
ACCTATGATA	ATCCCCTCAT	GCAGTTGGTC	CGTCACACTA	TTGAATACAT	TAAGAATCAG	8040
AAAAGCATTG	GTCAAGGGGT	ACTAGATAAT	СТСТСААСТА	GTCGTGAAAA	CGTATCTGAA	8100
ATCGTGCGTG	TAACGCCCTC	ттаталаста	GCTGATCGTG	CTAAGATTAT	TCGGGGAAAT	8160
CAATCTAAAC	CTATACGTCA	TGCATACTTT	CACGAGTACA	GAAACTTACA	AGAACTTTGT	8220
CTGATGATCC	TAAACCAAGA	AAAGCACGGT	TTAGGGTATC	AAGATCAAAA	AATCTATGGT	8280
ATTCTCTTTG	ATGTTGCCTG	GCTTTGGGAA	GAGTATGTTT	ACACCTTGTT	GCCAAAAGGT	8340
TTTGTACATC	CCAGAAATAA	GGATAAGACG	GATGGAATTT	CAGTATTTTC	TGTTGGGAAA	8400
CGAAAAGTAT	ATCCAGATTT	TTATGACAGA	GAACGAAAGA	TTGTTCTAGA	TGCAAAATAT	8460
AAAAAACTGG	AATTGACTGA	AAAAGGAATC	AACCGTGAGG	ACTTATTCCA	GCTGATTTCC	8520
ТАТТСТТАТА	TTTTAAAAGC	TGAGAAGGCT	GGACTGATTT	TTCCTAGTAT	GGAGCAGTCA	8580
GTAAATAGTG	AAATAGGAAA	AGTAGCTGGC	TATGGAGCTC	AATTGAAGAA	GTGGTCTATT	8640
CGAATCCCTC	AGAATGCCTC	ATTCTATAGT	ACATTTTGTA	aaatgatgga	AAATTCAGAA	8700
GAG						8703

(2) INFORMATION FOR SEQ ID NO: 178:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 4854 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 178:

CATCACCAGT	TTTAGATGGC	TTTAACAGTG	AAATTATTGC	TTTTAATCTT	TCTTGTTCGC	60
CTAATTTAGA	ACAAGTACAA	ACAATGTTGG	AACAGGCATT	CAAAGAGAAG	CACTACGAGA	120
ATACGATTCT	CCATAGTGAC	CAAGGCTGGC	AATATCAACA	CGATTCTTAT	CATCGGTTCC -	180
TAGAGAGTAA	GGGAATTCAA	GCATCCATGT	CACGTAAGGG	CAACAGCCAA	GACAACGGTA	240
GGATGGAATC	TTTCTTTGGC	ATTTTAAAAT	CCGAAATGTT	TTATGGCTAT	GAGAAAACAT	300
TTAAATCACT	TAACCAATTG	GAACAAGCCA	TTATAGACTA	TATTGATTAT	TACAACAATA	360
AGAAAATTAA	GATAAAACTA	AAAGGACTTA	GTCCTGTGCA	GTACAGAACT	AAATCCTTTG	420
GATAAATTAT	TTGTCTAACT	GTTTGGGGGC	AGTACACAAG	AAAGCGCTTT	AAAACCAGTA	480

			1116			
GACCTTTTCA	TAAGGTTCGC	TTGATGTACC	AAGATGAGGC	TGGTTTCGGT	AGAATCAGTA	540
AACTGGGATC	TTGTTGGTCT	CCAATAGGAG	TAGGTCCACA	TGTCCATAGT	CACTATATAC	600
GAGAATTTCG	CTATTGTTAT	GGAGCTGTTG	ATGCCCATAC	AGGCGAATCA	TTTTTCTTAA	660
TAGCTGGTGG	ATGTAATACT	GAGTGGATGA	ACGCCTTTTT	AGAAGAGCTT	TCACAAGCTT	720
ATCCAGATGA	TTATCTTTTA	CTCGTTATGG	ACAATGCTAT	ATGGCATAAA	TCAAGTACCT	780
TAAAGATTCC	GACTAATATT	GGTTTTACCT	TTATTCCTCC	ATACACACCA	GAGATGAACC	840
CATTGAACAA	GTGTGGAAAG	AGATTCGTAA	ACGTGGATTT	AAGAATAAAG	CCTTTCGAAC	900
TTTGGAAGAT	GTCATGAATC	AACTCCAAGA	TGTCATACAA	GGATTGGAGA	AGGAGGTGAT	960
AAAGTCCATC	GTTAATCGGA	GATGGACTAG	AATGCTTTTT	GAAAACAGAT	GAGTATAAAA	1020
TTGAATTGCT	TATAAAAAAG	CTCCATACAC	TGGATGTGTA	TAGAGCAATG	GGGCTTTATT	1080
TGATATAGAG	TTCTTGGTTT	TTTAGGACAA	TTTCTCGGAT	ACTTGCAAAC	TTTTTAAGTT	1140
TTTTGATTTC	TTCTGGATGA	GTGACGAGAG	TGATAACATA	ACCTTCCTTG	CCCATACGAC	1200
CAGTACGGCC	AGCACGGTGT	GTGTAGGTTT	CGCTATCTCT	AGGAATATCA	AAGTTTACGA	1260
CACATTCTAG	GCTATCGATA	TCAATTCCAC	GAGCCAAAAG	GTCAGTTGCA	AGAAGCAGGG	1320
TTAGTTGGTT	ATCTTTAAAC	TTTTCTAAGA	TGATTTTTCT	AAATTTAACA	TTAACATCAC	1380
TAGCGAGGGA	AACAGCCAAT	ATATCACGAT	ACTGTAGTTT	TTCCTCGGCA	TTCCCAAGGT	1440
CTGACAGGCT	ATTGAAGAAG	ACTAGACCAÇ	GGAAATCCTC	TACATGAGCC	AGTTTTCGTA	1500
GCATATCCAC	TCGATGACGT	TGGTCTACCT	GCATGTAGAA	ATGCTGGATA	TTGTCCAATT	1560
TTTGATCAGA	GAGATCAATA	GTGCGTGTAT	TCGGCACAAT	CTTTTCTTGG	TCAAACTTGG	1620
TCGTGGCACT	CATGTAGACC	AGTTGGTGGT	CACGAGGTGC	GTAGTGAGTG	ATTTTTTCTA	1680
CAAAGTGAAT	CTGAGAATCA	TCTAGTAATT	GGTCAAATTC	ATCCAGGATG	ATGGTTTCCA	1740
CATTCATCAT	CTTGATTTTT	TTAAGTTTAA	TGAGTTCAAA	GATACGGCCA	GGAGTTCCAA	1800
TCAGAATTTC	TGGCCCCTTT	TTAAGACGTT	CAATTTGTCG	TTTCTGACTT	GAACCTGAAA	1860
GGAAGAGTTG	AGCAGTCAAT	CCGATAGCTT	CTGCCCACGT	TTTACATACA	TCAAAAATCT	1920
GTCCAGCAAG	TTCCGTATTT	GGTGCTAGAA	TCAAGAGTTG	TTGGGCTTTT	TTCTTTTGTA	1980
GTCTGAGAAG	ACTTGGTAGG	AGATACGCTA	GGGTCTTACC	AGTTCCGGTT	TGGCTCACTC	2040
CTAGGAGGTT	TTCTCCAGCA	agaagggct	CAAATAGTTG	AGTTTGAATG	GGGGTGAATT	2100
CTTGGAAACC	GAGTTGGTCA	CTCAGTTCTT	GCCATTCAGT	CGGTAGTTTG	GTTTTCATTT	2160
TTCTGCCTCA	AATCTAATGC	CAGCAGTCTG	GCGCATGGTA	TATAGTAGCT	CATGAACAGA	2220
GCCTGCATCA	TACAGCCAAG	TTTGGTAGAG	ATTCAGATCT	GGTTGCTGGA	TCATGTGTGC	2280

VAATGCAGCG	ACTTCCTCAG	TCATCGTATG	AGGAGCCTGT	TGGATAGGAA	GCTGGACTTG	2340
ATTTCCTTGG	TGGTCGGTAA	AAATAGCTGA	GCGAATATGC	TCAATCGTGT	TGAGAGTCAA	2400
GTTCCATCT	GTTGTATAAA	TCTCGCAAGG	AAGATTGGAA	GTGATGTTTT	TTCCAGCCTT	2460
GATGTGAACT	TGATAGTCTG	GGTAGAAGAG	GATACCATCT	CCATTTAGGT	CAATGCTATT	2520
STCAAGCTGT	TGAGCATGGT	AAGTCGCGTC	ATTGGCTTTT	CCAAAAAGAC	GAACAGCAGC	2580
ATAGAGGGGA	TAAATCCCCA	AATCCATGAG	GGCTCCACCA	GCAAAACGGT	CTGAAAAGAC	2640
\TTTGGTGTT	TGTCCAGCCA	ACAAGTCAGG	CATCTTGGAA	GAGTATTTGG	CATAGTTGAA	2700
ATCTGCTCCT	AACACTTGCT	TATCTGCTAA	AAAGTTTTTG	ATAGTAGTAA	AGGCTTTCTC	2760
STGGTAATTA	CGAGCTGCTT	CAAAGATAAA	ACAGTTATTT	TTTTCAGCTG	TTTGAATCAA	2820
ATCAAACCAT	TCTTGTGGTT	GAGAGACAGC	TGGCTTTTCG	AGAATAACAT	GTTTACCAGC	2880
AGACAAGGCA	GCTTTTGCCT	GAGCAAAATG	TAAGGAGTTT	GGACTGGCGA	TATAGACTAA	2940
ATCAAAAGAA	GATTTGAAGA	AGACTTCTAA	TTGATCGAAT	AGTTGGATAT	TCTGATAGCG	3000
AGAAGCAAAG	GTTGCTGCAG	TTTCTAGTTT	TCTAGAATAG	ATTGCGACCA	GTTGGTATTC	3060
CCACTGGTA	TGGGCTGCTT	CTATGAAATG	ATGGCTGATA	GCGCCAGTTC	CGATGACACC	3120
TAATTTTAGC	ATAAATACTC	CTTTTCCGAT	TTTAAATCCT	TCTTTCATTA	TAACATAGAT	3180
GACGGGACT	ATCCAACAGA	GAGGAGAAAA	TTTCAAATAA	GCTATTAGCT	TTCTTTTCCG	3240
ATAAATAGA	TAGAAGCATA	GAATCTAGCA	AACCTAGATT	TAAAAATGTG	CTATAATAGA	3300
AGGAGGAAAA	GGAGGATTCT	CAGACATCTA	GGTATCAGCC	CAACTAATGA	TTTGTCAATT	3360
PATCCGCGAT	ATGCTGGACT	TGCCAGCAAA	AAATGTGACG	ATTTTGGAGG	GAAGTAACAT	3420
CACGTCTTG	CCTTCCATGC	CCTACTCAGC	GTAAGATTTC	TATACTAGTA	TAGACGTCTT	3480
GCGGAGTTA	GATAATGGAA	TCCAAGTTAT	CATCGAAATT	CAGGTTCATC	ATCAGAATTT	3540
TTCATCAAT	CGCCTATGGC	CTTATCTGTG	CAGTCAGGTT	AATCAAAACC	TAGAAAAAT	3600
CGCCAACGT	GAAGGTGATA	CCCACCAGAG	CTACAAACAA	ATCGCACTAG	TATACGCTAT	3660
GCAATTGTC	GATAGTAATT	ACTTCTCAGA	TGACCTAGCT	TTTCATAGTT	TTATAGTAAA	3720
ATGAAATGAG	AACAGGACAA	ATCGATCAGG	ACAGTCAAAT	CGATTTCTAA	CAATGTTTTA	3780
SAAGTATAGG	TCTACTATTC	TAGCTTCAAT	CTACTAGAAA	TTCCATAGAT	AGAAAACTAC	3840
TAATCTCTA	CAGATACGGA	TGTTGGAGTT	GATGTAAGAT	GCTTTGGCTT	GCTAGAGGAA	3900
TGTGGATTG	CCAAATTGTA	TCATTGAAAT	TATTGCTCAA	ATTTGTTATG	АТАТАААТАТ	3960
AATAAAAGT	AGACTAGGAC	GTGGCAGACA	CGGGAAAACG	AGACATGTAT	TATTGGCTTT	4020

			1118			
GATTGGTATT	TTAGCAATTT	CTATTTGCCT	ATTAGGCGGA	TTTATTGCTT	TTAAGATCTA	4080
CCAGCAAAAA	AGTTTTGAGC	aaaagattga	ATCGCTCAAA	AAAGAGAAAG	ATGATCAATT	4140
GAGTGAGGGA	AATCAGAAGG	AGCATTTTCG	TCAGGGGCAA	GCCGAAGTGA	TTGCCTATTA	4200
TCCTCTCCAA	GGGGAGAAAG	TGATTTCCTC	TGTTAGGGAG	СТGАТАААТС	AAGATGTTAA	4260
GGACAAGCTA	GAAAGTAAGG	ACAATCTTGT	TTTCTACTAT	ACAGAGCAAG	AAGAGTCAGG	4320
TTTAAAGGGA	GTCGTTAATC	GTAATGTGAC	CAAACAAATC	TATGATTTAG	TTGCTTTTAA	4380
GATTGAAGAG	ACTGAAAAGA	CCAGTCTAGG	AAAGGTTCAC	TTAACAGAAG	ATGGGCAACC	4440
TTTTACACTT	GACCAACTGT	TTTCAGATGC	TAGTAAGGCT	AAGGAACAGC	TGATAAAAGA	4500
GTTGACCTCC	TTCATAGAGG	TAAAAAAAT	AGAGCAAGAC	CAGAGTGAGC	AGATTGTAAA	4560
AAACTTCTCT	GACCAAGACT	TGTCTGCATG	GAATTTTGAT	TACAAGGATA	GTCAGATTAT	4620
CCTTTATCCA	AGTCCTGTGG	TTGAAAATTT	AGAAGAGATA	GCCTTGCCAG	TATCTGCTTT	4680
CTTTGATGTT	ATCCAATCTT	CGTACTTACT	CGAAAAAGAT	GCGGCCTTGT	ACCAATCTTA	4740
CTTTGATAAG	AAACATCAAA	AAGTTGTCGC	TCTAACCTTT	GATGATGGTC	CAAATCCAGC	4800
AACGACCCCG	CAGGTATTAG	AGACCCTAGC	TAAATATGAT	ATTACAAGCG	GGGT	4854
(2) INFORMA	ATION FOR SI	Q ID NO: 17	79:			

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2186 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 179:

TAAACAGGTG TTAGGTGCTC TAAACTATTA AAATTCTAAG GAAATAAGGC TACTTTTCT 60 GGGTCTTGTT CATAGTAGGT GTGGTTCTTT TTTTCGAGTG TAGCCCATAG CTTTGAGCGC 120 ATAGTGGATG GTAGTTGGAT GACAGCCAAA TTCAGAAGCT ATTTCAGTCA AATAAGCATC 180 TGGATTGTCA GTAAGATAGT TTTTAAGTCT ATCTCTATCA ACTTTTCTTG GTTTTGTTCC 240 TTTTACTTGG TGGTTTAGCT CTCCTGTTTT CTCTTTTAGC TTTAACCAGC CATAAATGGT 300 ATTACGTGAG ATTTGGAAAA CGTGTGATGC TTCTGTTATA CTACCTGTTC GCTCACAATA 360 AGAGAGAACT TTTTTACGAA AATCTATTGA ATATGCCATA AGAAGATTAT ACCACATTGT 420 GTACTATTTT TGGTTCATTT TACTATATTT CTAAACACTT AGAAATAATA AAACAAATTA 480 AATATTATTT CTAAATATTT GAAAATAACA TCTATTTGTA TTATACTATC TTTGAGGTAA 540 CTATTATGAA CTATATCAAA AGACCACATT ATTTAGATTT TTTAAGAAAA CATCGTGACC 600

1119

GACCAATCAT	CAAAGTTGTG	AGTGGAGTTA	GACGAGCTGG	TAAATCTGTG	CTTTTTCAAC	660
TCTATAAAGA	GGAGTTACTA	GCAACTGGGG	TAGACGAGGA	TCAGATTATA	TTCATCAATT	720
TCGAAGATTT	GAGTTACTAT	GATCTGCGAC	ATTTTCAAAC	ATTATTCGCT	TATATAAAAG	780
ATCAATTAGT	TAGCAAGAAA	ACATACTATA	TCTTTTTAGA	TGAAATTCAA	TATGTTGAAA	840
AATTTGAACT	GGTAGCAGAT	AGTCTATTCA	TCTTAGCAAA	TGTAGACCTC	TATTTGACTG	900
GATCTAACGC	CTACTTTATG	AGTAGCCAAT	TAGCAACAAA	CTTGACTGGT	CGGTATGTTG	960
AGATAGAGGT	TCTTCCTTTG	TCATTTGAAG	AATATCTATC	AGGTCAATCT	CTCACAGAGA	1020
ATCTGAATAC	AACAGAAATT	TTTAACAATT	ATCTCTTTAG	TGCTTTCCCT	TACTTATTGC	1080
AAACATCATC	TTACGATGAA	AAAATTGACT	ATCTCAGAGG	AATATATAAC	TCCATACTGT	· 1140
TAAATGATAT	TGTCACTAGA	TTGGGAAAAC	CAAATCCTAC	TATTATTGAG	CGCATTGTCC	1200
GAACCCTTCT	CAGTAGTACA	GGTAGCTTAA	TATCAACAAA	TAAGATTCGC	AATACCCTAG	1260
TCAGCCAAAA	TGTTTCAATA	TCCCATAATA	CTTTGGAAAA	TTATTTGACA	ACTTTGACAG	1320
ATAGTTTACT	TTTTTATTCC	GTTCCACGTT	TTGATGTAAA	AGGTAGAGCA	TTATTGCAAC	1380
GTTTAGAAAA	ATATTATCCC	GTTGATTTAG	GTTTACGACA	TCTCTTATTA	CCAGACCAGA	1440
AAGAAGACAT	TAGGCATATC	TTGGAAAATA	TGGTATATTT	GGAATTGAGA	CGTAGATATT	1500
CACAAGTATA	TGTTGGTAAT	TTAGATAAGT	ATGAGGTTGA	TTTTGTTGTT	GTAACTGATC	1560
TTGGCCACTA	CGCTTATTAT	CAGGTCAGTG	AAACAACACT	TGCTCCAGAA	ACACTAGAAA	1620
GAGAACTTAG	ACCACTAGAA	GCCATTAAAG	ATCAATTCCC	TAAATATCTA	TTAACAATGG	1680
ATACGATTCA	GCCAACAGCC	AATTACAATG	GAATCGAGAA	GAAAAGCATT	ATAGATTGGT	1740
ТАСТАБАААА	ATAGATAAAT	ATAAATCATA	CAGCTAATTA	GATTTGCAAC	AGTCTGTTAT	1800
CAATGATTCT	ACCCAAATCC	TAACAAGATA	TAGTGAATTT	CGAATACGCT	ATATAATACG	1860
GACACTTGAA	AATAGAAATT	GGGGATGAAA	GGGGATCTAT	AATTTCTGGA	AGTACTATCA	1920
AAAATTAATA	TCATAGTCTT	ATTAGAGAAT	AGCATCACCC	ACTTTCTCAA	ATAAGATTAA	1980
ATTGTAACTG	AATTATAATG	AAAAAGAGAC	TGAGCAATCA	GTCTTTAAAA	TCAGAAAAGC	2040
GCATAGTATC	AGGTATTGAA	CAACCTTGAT	AATATGCGTT	TTATTATGGA	AATATTTGCT	2100
TCATTTTCTC	CTGAAATAGA	GCTTTTGCTA	TCCTATTTTT	CTCTATTTCT	AATGATTTAC	2160
TTCAACTTCT	TACCTCTTGG	GAAAAA		•		2186

(2) INFORMATION FOR SEQ ID NO: 180:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 3236 base pairs

1120

- (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 180:

GTCACACGTT	TGACTTCACG	TATTTCATAA	GTATAAACTT	TATTTTTATC	GGTTAGATAA	60
ATCTTCATGC	CATTTTTAGC	ATTATCTAAA	GGAGAAAATA	ACATTTTATT	AGCATTATCA	120
ACACCAAAGA	TATGGTGACT	AGCTAGACTA	TAATTTCCTT	CTCCCATTAC	TTGCTCGCGT	180
TTCATTGTAC	CAGCTCCGTA	GAAGAGATTA	ACATTATCAA	GTCCTTTAAA	AATCGGCAAA	240
TTCATTTCCA	ATTCAGGAAT	TGCAATTCCC	CCAATAACTG	GTAATTTTTG	AGCATCCCAT,	300
TGAGAAGTTA	GAACAGCTTC	CGAAGAGATA	GCTTTGACAG	AATCAAAGTC	AAAATTGCCT	360
TCTGTATCCT	GATTTTCTTC	TAATTTTTCT	TTTGATACCT	GGCTAACTTG	ATACTTATTG	420
GTATTCCAGA.	CTATGAAAAT	ATTTCGAATT	TGAGTATTAA	AAATCAAAGC	CAGTGACAGT	480
AATATCAGAA	ATCCTGCTAG	GATATTTGTC	AGCAGATTTT	TTCGCTTGTT	TTTCTTTTTA	540
TTATTTTTTT	GAGACATTAT	CCTTCACCTT	CTGTTTCGTT	TTCTGTCCCA	ACTTCTTCTT	600
TTTCTGCCAC	CGCAACCGTT	GTGAAAGTCA	CTATCTGAGC	ATCTTGATCC	AGGCGCATTA	. 660
CTTTAACTCC	CATAGTTGCA	CGTCCTGTTT	GTGAAATATT	GGCAAGATTG	GTTCGAATCA	720
TGACACCTGT	ATCAGTGATA	ATCATCAAAT	CCTCATCCCC	TTGAACAGTC	ATAAGACCGG	780
CCAGCAAGCC	ATTTTTTCG	GTAATTTTAG	CTGTCTGCAT	TCCCTTACCA	CCACGACCTT	840
TTGTTGGGTA	TTCAGTAGCG	ACTGTACGCT	TACCATATCC	TTTTTCTGTG	ATAATAAGAA	900
CCTCATCTTG	ATCAGTAATC	AAGCTGGCAC	CAACAACTGT	GTCTCCTTCA	CGAAGGTTAA	960
CACCTTTCAC	ACCAGTGGCG	ATACGGCTCA	TACCACGAAC	GGCTGATTGA	TTAAAGCGAA	1020
CTGCATAACC	AAACTTGGTA	CCAATGATAA	TATCCATATC	TCCTTCTGCC	AACAAGACAT	1080
TGATTAACTC	ATCTTCATCC	TTTAAATTCA	GCGCTTTGAG	ACCATTTTGA	CGAATATTGG	1140
CAAACTCCTT	AACACTGGTT	CTCTTCACAA	TACCGTGACG	GGTTGTAAAG	AAGAGATAAG	1200
CATCATCACT	GCGATCAGAC	TCAACATTGA	TAACCGTCTG	AATACTTTCG	TCTTCATCCA	1260
ATTTCAAGAG	ATTGACTACT	GGTAGCCCTT	TGGCAGTCCG	ACCATACTCA	GGAATTTCAT	1320
AACCTTTAAG	ACGATAGACA	CCTCCCTTCT	TTGTGAAGAA	GAGCAGATGA	TCATGGGTGC	1380
TAGTTGACAC	TAACTCACGA	ACAAAGTCAT	CATCTTTCAC	TCCCGTTCCT	TGGACACCAC	1440
GACCCCCACG	TTTTTGAGCA	GTGAACTCGT	CCTGATCCAA	ACGCTTAATG	TAGCCTCTGT	. 1500
TAGAAAGGGT	AATCAAGACA	TCCGATTCTT	CAATCAAGTC	CTCATCCTCG	AGACTCAAGA	1560

C	CCTGTCCAAT	CATCAACTCT	GTACGGCGCT	TATCAGAAAA	TTTACGTTTA	ACTTCATCCA	1620
F	ATTCGTCTTT	GATAATTTGA	GAAACACGTT	CAGGCTTAGC	AAGAATATCT	GCTAAATCCG	1680
c	CAATCAGAGC	CAAGAGGTCA	TCATACTCAG	ATTGAATCTT	ATCGCGTTCC	AAACCTGTCA	1740
P	ACGACGAAG	ACGCATATCA	AGGATAGCTT	GACTTTGACG	TTCAGAAAGC	TTAAACTTGC	1800
7	CATCAACTC	AGCTTGAGCT	TCCGCATcCG	tTTCACTAGC	ACGGATGATA	CGAATCAYTC	1860
C	STCGATATGG	TCTAGCGCAA	TCAAGAGACC	TTCTAAGATA	TGAGCGCGCG	CTTCCGCTTT	1920
7	TTCCTTATCA	AAACGTGTAC	GACGAACAAC	CACTTCTTTT	TGGTGCTCGA	TATAAGCATC	1980
c	CAAAATCTGA	CGAAGAGACA	AAATTTTCGG	TATACCATTT	TGGATAGCGA	GCATATTGAA	2040
F	ACCAAAATTG	GTTTGCATTT	GGGTCATTTT	GAAGAGGTTA	TTGAGAATAA	CATTGGCTGA	2100
C	GCGTCGCGC	TTGACTTCAA	TAACAAATCG	AACACCTTCA	CGGTTTGACT	CATCACGTAC	2160
7	GCTGTGATA	CCCTCAATGC	GTTTTTCCTG	AACCAAGCGA	ACAATATGCT	CATGCACCTT	2220
C	GTTTTATTG	ACCATGTAAG	GAAATTCTGT	TACAACGATA	CGCTCACGAC	CAGTCTTAGT	2280
C	GTTTCAATC	TCTGTACGAG	AACGTAGGAC	AATCGAACCT	TTACCTGTTT	CATAAGCCTT	2340
P	ATGGATACCT	GATTTCCCCA	TGACAAGAGC	ACCAGTTGGA	AAATCTGGTC	CAGGCAAGAC	2400
1	TCCATCAAG	TCCTTGGTAG	TCACTTCAGG	ATTATCCATG	ACCAACTTCA	CTGCATCAAT	2460
g	GTTTCACCC	AGATTATGAG	GTGGAATATT	GGTTGCCATC	CCAACCGCGA	TACCAGTTGC	2520
7	CCATTAACC	AAAAGGTTTG	GAAAACGCGC	TGGCAAGACC	AAGGGTTCCC	GTTCATTGGC	2580
P	TCATAGTTA	TCAACGAAAT	CAACTGTATT	TTTGTTGATA	TCACGAAGCA	TTTCCAGAGC	2640
P	ATCTTGCTC	ATACGTGCCT	CGGTATAACG	TTGAGCGGCA	GCACTATCTC	CATCCATGGA	2700
A	CCAAAATTC	CCATGACCAT	CTACAAGCAT	GTAACGGTAG	CTCCACCATT	GAGCCATACG	2760
G	SACCATGGCT	TCATAAATAG	AGGAATCCCC	GTGTGGGTGA	TATTTACCCA	TGACATCCCC	2820
1	GTAATACGA	GCAGATTTTT	TATGGGGTTT	GTCTGGGGTC	ACACCCAATT	CATTCATTCC	2880
G	STAGAGAATG	CGACGGTGAA	CAGGTTTTAA	GCCATCTCGA	ACATCAGGAA	GAGCTCGCGC	2940
T	ACGATAACA	CTCATGGCGT	AGTCGATAAA	ACTTGCCTTC	ATCTCCTTTG	TCAGATTGAC	- 3000
A	TTCACTAAA	TTTTTATCCT	GCATTAATAA	ATGCCTCATT	TCACAATTAG	TAAGTAACAA	3060
C	ATTATACCA	TAAATTCCCA	TCTATTTCAG	CCTCTAAACC	ACTAAAACGT	TTACATCGAG	3120
A	ACTATAAGG	CATATTCGTG	ACAAAGTTTT	TTAAAAGTGA	TAGAATGAAG	TTGTCTAGGG	3180
A	AAACCCCTA	ATAGAATAAG	GAGATGGTTA	nACAATGACT	CTGACTAACA	CACAAA	3236
			4				

⁽²⁾ INFORMATION FOR SEQ ID NO: 181:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 8651 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 181:

AGGTCCTGAA	GTATTGGAAC	AGGAAGGTCA	AGAGTTTTTG	GAACATTTCA	AAAAACTCTT	60
GGAGTCAGTT	GAAGTAGTAG	CCATCTCAGG	TAGTCTGCCA	GCTGGCCTTC	CAGTTGATTA	120
CTATGCGAGC	TTGGTAGAAC	TTGCTAATCA	AGCTGGCAAG	CATGTAGTCT	TGGACTGCTC	180
AGGTGCAGCA	CTTCAGGCTG	TTCTTGAATC	ACCCCATAAA	CCAACAGTCA	TCAAACCAAA	240
TAATGAAGAA	TTGTCTCAGC	TTCTTGGAAG	AGAAGTTTCT	GAGGATTTGG	ATGAATTAAA	300
AGAAGTACTT	CAAGAACCTT	TGTTTGCAGG	GATTGAATGG	ATTATCGTTT	CACTTGGTGC	360
CAACGGTACT	TTTGCCAAAC	ATGGTGACAC	TTTCTACAAG	GTAGATATTC	CTAGAATTCA	420
GGTGGTAAAT	CCTGTTGGAT	CTGGAGACTC	TACTGTGGCA	GGAATTTCTT	CAGGACTTCT	480
TCACAAAGAA	TCGGATGCAG	AATTACTCAT	CAAGGCAAAT	GTCCTTGGTA	TGCTCAATGC	540
TCAAGAAAAA	ATGACTGGTC	ATGTCAACAT	GGCCAACTAT	CAAGCTCTAT	ATGATCAATT	600
AATAGTAAAA	GAGGTATAAA	ATGGCTTTAA	CAGAACAAAA	ACGTGTACGC	TTAGAAAAAC	660
TTTCTGATGA	AAATGGTATC	ATCTCAGCTC	TTGCATTTGA	CCAACGTGGT	GCTTTGAAAC	720
GCCTCATGGT	TAAACACCAA	ACAGAAGAAC	CAACTGTGGC	CCAAATGGAA	GAACTTAAAG	780
TCTTGGTAGC	AGATGAATTG	ACTAAATATG	CTTCATCTAT	GCTTCTTGAC	CCTGAGTATG	840
GACTTCCAGC	AACTAAAGCT	CTTGATGAAA	AAGCTGGTCT	TCTCCTTGCT	TATGAAAAA	900
CAGGTTATGA	CACAACAAGC	ACAAAACGCT	TGCCAGACTG	CTTGGATGTT	TGGTCTGCAA	960
AACGTATTAA	AGAAGAAGGT	GCAGATGCAG	TTAÄATTCTT	GCTTTACTAT	GATGTAGATA	1020
GCTCAGACGA	ACTCAATCAA	GAAAAACAAG	CCTACATCGA	ACGCATCGGT	TCTGAGTG'I'G	1080
TGGCTGAAGA	TATCCCATTC	TTCCTTGAAA	TCCTTGCTTA	CGATGAAAAA	ATTGCGGATG	1140
CAGGTTCTGT	AGAATACGCT	AAAGTAAAAC	CACACAAAGT	TATCGGCGCT	ATGAAAGTCT	1200
TTTCAGACCC	ACGCTTTAAC	ATTGATGTTT	TGAAAGTTGA	AGTTCCTGTT	AACATTAAAT	1260
ATGTTGAAGc	KTCGCTGAAG	GTGAAGTAGT	TTATACACGT	GAAGAAGCAG	CAGCCTTCTT	1320
CAAAGCGCAA	GATGAAGCAA	CGAACTTGCC	ATACATCTAC	TTGAGTGCTG	GTGTATCAGC	1380
TAAACTCTTC	CAAGATACTC	TTGTATTTGC	TCATGAATCA	GGTGCGAACT	TTAACGGAGT	1440
TCTTTGTGGC	CGTGCTACAT	GGGCAGGATC	AGTTGAAGCT	TACATCAAAG	ATGGTGAAGC	1500

AGCAGCTCGC	GAATGGtCGC	ACAACTGGAT	TTGAAAACAT	TGACGAACTC	AACAAAGTTC	1560
TTCAAAGAAC	AGCAACTTCA	TGGAAAGAAC	GCGTGTAAGA	AAGTCCTCCT	AGTTTAGGAA	1620
CATGAATCTA	ATTTAAAAAA	AAAAAAGTTG	TATGTAAAGG	CTTACAAAAT	AACTTACTTG	1680
TGCTATACTT	AAATCACAAG	TTAATATGAA	TTAGAAAGTA	ACTATATGAA	GTATAATAAA	1740
AATAGGATAT	AGTTTATTTT	ACGAGCTAGG	AAGGAAAAAT	ACGGAAACAA	TATTGCCAGA	1800
АТАААСТАТА	TTTAGATGCA	CATTTCATTC	ATTGTTTTAT	AAAAGGAGAA	GATAAACGGC	1860
TACTAAAAAG	AGTTTTAAAG	CGTTAGTTGT	AGGACTAGGT	ATTGTTTCAA	TATTCTTATC	1920
AGCCTTACCT	ATGGTTAGTG	GTTCTGTATT	TGCAGATAGT	GCCCTAACTA	CAGTAGATAA	1980
AGCAAATGAT	ATTGTTTTGA	ATGTTGATGG	GAATAAATTT	TATAATGTTT	CGGTTTCAGA	2040
AGATATTGTA	AATGCTGGTC	AAATTTTGGA	AGATTATTTT	TATGTAGATA	AATTTGGAAA	2100
TATAAÄTTTA	AAAGGCACTC	CTGAAGAGTT	AGCAAAAAAT	ATTGGTATTT	CTGTACAAGA	2160
AGCAAGTTTG	ATGTATGGAG	CTGTAAAAGA	CTTACCCAAC	GTTTACGAAA	GAGGTCCTGT	2220
AGGTTTTCGT	TTCAATCTTG	GTCCTCAAGT	GAGGGGGATG	GCTGGCTGGG	CTGCTGGAGC	2280
TTTCGCTACT	GGATATGCTG	GATGGCATTT	GAAACAATTT	GCGGTTAATC	CTGTTACATC	2340
TGGATTTGTT	GCTGTAATAA	GTGGTGCGAT	TGGCTGGGCT	GTAAAAACTG	CTGTAGAAAA	2400
TTATTGGACA	GTTGCTGTAG	CTACAGTAGA	AGTGCCGTTT	GTGAACCTTG	TTTACACCAT	2460
AGATTTACCT	TAGAGGTTAT	TTCTTTATGA	ATCATTCTTT	ТААААААТА	ACTGTATTTT	2520
GTTTTATAGT	TTCTTGTGTT	CTTTGTTTAT	TAGACTTAAT	GAATTTTAAA	AATGTAGCTA	2580
CTTTTTATT	TTTCTGTCTT	CCTGTTTTTG	TTTTGATTTA	САААААТААА	TAAAAACAGA	2640
GCCTCTGTTT	GATGAATTTT	AGAACATAGT	TAAGTTTTAA	AAAAAGTTGT	ATGTAAAGGT	2700
TTACAAAATA	ACTTACTTGT	GCTATACTTA	AATCACAAGT	TAATACAAGG	TGAGTGTTAC	2760
TAAGTAATAT	TAGGCATGAT	CACAGGTGAA	TTAGAAATCA	GCTGATTTTC	TAGTTCATTT	2820
GTGGTCATTT	TTTGTACTTA	TATACCTTTA	AGATATAAAA	GGAGGTTGAC	ATGTATCGAA	2880
TTCTAAATCC	AATGAATCAC	AATGTCTCGC	TTGTCAGAAA	TGATAAGGGA	GAAGAGGTGA	2940
PTGTAATTGG	TAAGGGAATT	GCATTCGGAA	AGAAGAAGGG	GGATTTGATT	GCTGAAAATC	3000
AGGTTGAGAA	AATCTTTCGG	ATGAAGACCG	AAGAGTCCAG	AGAAAACTTT	ATGGCTCTTC	3060
rcaaagatgt	TCCGCTTGAT	TTTATCACAG	TGACCTATGA	AATCATTGAT	AAGCTATCAA	3120
AGAAATATCA	TTATCCGATT	CAAGAGTATC	TCTATGTAAC	CTTGACAGAT	САТАТТТАСТ	3180
AOTRATETOTETE	ACCIPCITĂACIT	CAAGGAAGGT	ACAAGGATAG	ТААТСТСССА	САТАФФФССС	3240

1124 CTAAGTATCC TGTCGCTTTT CAAATCGCAA ATGAAGCTTT TGAAATTTAC CGTCAGAAGC 3300 TAGCAGATCA TTTTCCTGAG GACGAAATTA TTCGGATTGC TTATCATTTC ATTAATGCTG AAGGTGAAAA TGAAGTGGAA CTTGTGGAGT CGATTGATAA GAGGAAAGAA ATTCTCAGGA 3420 ATGTTGAAGA AGTTTTAACG GACTATGCAA TTCAACGAAC TAAAAAGAAT AACCATTTCT 3480 ATGATCGCTT TATGATCCAT TTGAATTATT TCTTGGATTA TTTAGACAGA TCTAGAGATG 3540 ATAACCAATC ACTTCTGGAT ATGGAAGATC ATATTAAACA ATCCTATCCA AAAGCCTTCG 3600 AGATTGGTTC CAAGATCTAT GATGTGATTA CGCAACATAC GGGTCTTGAT TTGTATAAAA 3660 GTGAACGAGT TTATCTAGTT CTACATATCC AACGTTTATT GTCATAAAAA TTTATTTAAA 3720 ACTATATAAG GAGAATTCTA TCATGAATAG AGAAGAAGTA ACATTGTTAG GTTTTGAAAT 3780 CGTAGCCTAT GCTGGCGATG CTCGTTCAAA ACTATTGGAA GCCTTGAAGG CTGCTGAAGC 3840 TGGTGATTTT GAAAAAGCGG ACGCTCTGGT AGAGGAAGCT GGTAGCTGTA TTGCAGAGGC 3900 TCACCACGCG CAAACAAGTC TATTGACTAA GGAAGCTTCA GGTGAGGACT TGGCTTATAG 3960 TGTAACOATG ATGCATGGCC AAGACCACTT AATGACAACT ATCTTGTTAA AAGATTTGAT 4020 GCATCATTTA ATTGAACTCT ACAAGAGAGG AGTTCAATAA TGAATAAACT AATTGCATTT 4080 ATCGAGAAAG GAAAGCCTTT CTTTGAAAAA CTATCTCGTA ATATCTATCT TCGTGCTATT 4140 CGTGATGGTT TCATTGCAGG TATGCCTGTT ATTCTCTTCT CAAGTATCTT TATCTTGATT 4200 GCCTTTGTAC CAAACTCATG GGGCTTTAAA TGGTCTGATG AAGTTGTAGC CTTTCTGATG 4260 AAACCTTATA GCTATTCTAT GGGTATTCTG GCTCTCTTGG TAGCTGGTAC AACAGCTAAG 4320 4380 ACATTGTTGG CAGCAATTGT TGGTTTGTTG ATGTTGGCAG CTGATCCTAT CGAAAGTGGT 4440 CTAGCTACTG GATTCTTGGG GACAAAGGT TTGCTTTCAG CCTTCCTTGC TGCCTTTGTT 4500 ACTGTAGCCA TCTATAAGGT TTGTGTTAAG AACAACGTCA CTATTCGTAT GCCTGACGAA 4560 GTTCCACCAA ATATCTCACA AGTCTTTAAA GATGTGATTC CATTCACTCT ATCTGTTGTT 4620 TCTCTTTATG CTCTTGACTT ATTAGCACGT TATTTTGTTG GTTCTAGTGT GGCAGAATCA 4680 ATCGGTAAAT TCTTCGCACC ACTCTTCTCA GCAGCAGACG GATACCTTGG TATTACCATT 4740 ATCTTTGGTG CCTTTGCCTT CTTCTGGTTT GTTGGGATTC ATGGTCCATC TATCGTTGAA 4800 CCAGCTATCG CAGCTATTAC CTATGCCAAT GCCGAAGTTA ACTTGAACCT TCTCCAACAA 4860 GGGATGCATG CAGACAAGAT TCTTACTTCT GGTACACAAA TGTTTATCGT TACCATGGGT 4920 GGTACAGGTG CGACATTGGT CGTTCCATTT ATGTTCATGT GGTTGACAAA ATCGAAACGT 4980 AACCGTGCAA TCGGACGTGC TTCAGTAGTT CCTACCTTCT TCGGTGTAAA TGAACCAATC 5040

TTGTTTGGTG	CACCTCTTGT	TTTGAATCCA	ATCTTCTTCA	TTCCATTTAT	CTTTGCTCCA	5100
ATTGCAAACG	TATGGATTTT	CAAATTCTTT	ATTGAAACTC	TTGGAATGAA	CTCATTCACT	5160
GCTAATCTAC	CATGGACAAC	TCCAGCTCCA	CTAGGTCTAG	TTCTTGGAAC	TAACTTCCAA	5220
GTGCTATCAT	TCATTCTTGC	TGCCCTTCTA	ATCGTGGTTG	ACGTTGTCAT	TTACTATCCA	5280
TTCCTTAAGG	TCTATGATGA	ACAAATTCTT	GAAGAAGAAC	GTTCAGGTAA	GTCTAATGAT	5340
GAATTGAAAG	AAAAAGTTGC	TGCAAACTTC	AACACTGCAA	AAGCGGATGC	TATTCTTGAA	5400
AAAGCGGGTG	TCGATGCAGC	ACAAAATACC	ATCACTGAAG	AAACAAATGT	CCTCGTTCTC	5460
TGTGCAGGTG	GAGGAACAAG	TGGTCTCCTT	GCAAATGCTT	TGAATAAGGC	AGCAGCAGAA	5520
TACAATGTCC	CTGTGAAAGC	AGCAGCAGGC	GGCTATGGTG	CTCACCGTGA	AATGTTACCA	5580
GAGTTTGATC	TTGTTATCCT	TGCCCCTCAA	GTTGCTTCAA	ACTTTGAAGA	TATGAAAGCA	5640
GAAACAGATA	AGCTCGGTAT	TAAACTAGCG	AAAACAGAAG	GCGCTCAATA	CATCAAATTA	5700
ACTCGTGATG	GAAAAGGTGC	TCTTGCATTC	GTACAAGCGC	AATTCGATTA	AGGCTAGAGA	5760
CTCTGAAATA	GTCTCCCATC	GTTACGGAAA	TCGCTATGGC	GAATTTCCTA	TTATTAATTC	5820
GTCGGTAAAA	AGATATCGTT	TTTACCTCCT	CATGTCACAA	TTCGGTGACT	TGGTACAAGA	5880
AGTGAGATGG	AGAAGGATGG	CTCACTGACT	CCTCTCCTCT	CACTTTTACT	ТТАТТТАААТ	5940
CAAGAAATAG	GTGAAAAAAA	TGACAAAAAC	ACTTCCAAAA	GACTTTATTT	TTGGTGGCGC	6000
AACAGCTGCT	TATCAAGCAG	AAGGTGCTAC	ACATACTGAT	GGAAAAGGAC	CAGTTGCTTG	6060
GGATAAATAT	CTTGAGGATA	ACTACTGGTA	CACTGCCGAA	CCAGCTAGTG	ATTTTTACAA	6120
TCGATATCCA	GTTGACCTCA	AGCTAGCAGA	AGAGTATGGT	GTCAATGGTA	TTCGAATTTC	6180
TATTGCTTGG	TCACGTATTT	TCCCGACTGG	TTACGGCCAA	GTAAATGCTA	AAGGTGTTGA	6240
GTTTTATCAT	AATTTATTTG	CAGAGTGTCA	CAAACGTCAT	GTTGAGCCTT	TTGTAACTCT	6300
TCATCACTTT	GACACGCCAG	AAGCTCTCCA	CTCAAATGGA	GACTTCTTAA	ACCGTGAAAA	6360
TATCGAACAT	TTTGTAGACT	ACCCTCCCTT	CTGTTTTGAA	GAATTTCCAG	AAGTAAACTA	6420
TTGGACAACC	TTTAATGAAA	TTGGACCAAT	CGGTGATGGT	CAATATTTGG	TTGGGAAATT	6480
CCCTCCAGGT	ATCCAGTACG	ACCTTGCCAA	AGTCTTTCAA	TCACACCACA	ATATGATGGT	6540
GTCTCATGCA	CGCGCGGTAA	aattgtacaa	AGAGAAAGGC	TATAAAGGGG	AAATTGGTGT	6600
TGTTCACGCC	CTGCCAACTA	AATATCCTCT	AGATCCTGAA	AATCCAGCAG	ATGTTCGTGC	6660
AGCTGAGTTG	GAAGATATCA	TCCACAATAA	ATTCATCTTA	GACGCAACTT	ATCTAGGTCG	6720
CTATTCAGCT	GAAACCATGG	AAGGTGTCAA	CCATATCTTA	TTAGTCAATG	GTGGTAGTTT	6780

			1126			
GGATCTTCGT	GAAGAAGATT	TTACAGCATT	AGAAGCTGCA	AAAGACTTGA	ATGATTTCCT	6840
AGGAATCAAC	TACTATATGA	GTGACTGGAT	GGAAGCCTTT	GATGGAGAAA	CTGAAATTAT	6900
CCATAATGGT	AAAGGTGAAA	AAGGAAGCTC	TAAGTATCAA	ATCAAAGGTG	TTGGTCGTCG	6960
TGTAGCTCCT	GACTATGTAC	CACGCACGGA	TTGGGATTGG	ATTATCTACC	CTCAAGGTTT	7020
GTATGACCAA	ATCATGCGTG	TGAAGAAAGA	TTATCCTAAC	TACAAGAAGA	TTTACATCAC	7080
TGAAAATGGT	CTCGGCTATA	AAGATGAGTT	CGTTGATAAC	ACTGTTTACG	ATGATGGTCG	7140
TATTGATTAC	GTGAAGCAAC	ACTTGGAGGT	TTTATCTGAT	GCGATTGCAG	ATGGAGCTAA	7200
TGTAAAAGGT	TACTTCATTT	GGTCATTAAT	GGATGTCTTC	TCATGGTCAA	ACGGTTATGA	7260
GAAACGTTAT	GGTCTCTTCT	ACGTAGATTT	TGAAACTCAA	GAACGTTATC	CTAAGAAATC	7320
AGCTCACTGG	TACAAGAAAG	TAGCGGAAAC	TCAGATTATA	GACTAGTAGA	ATTAGTCATT	7380
AGATATAGAA	TTTTAGTGAG	TCAAAAAGAT	GTTCAAAGAT	TTTATCCAAT	CTATTTATGA	7440
AAAAAAGTTT	АТАТТАТААА	TTTCGAAAAA	TGCTCTCAAA	TACCGTGTTT	GACGAGTGAA	7500
GAATTGAAAA	GTCTTGGAAA	ATGGTATGTC	TCGACTGGTA	AAGAATGGAT	TTGTCATTCA	7560
GATGATGAGC	TGGAAGAATT	ТАААААТСТА	TTTTTAAATT	TTATCAATCC	TGAAGAATGG	7620
GATACTATCT	CCTTTGATTC	AGATTTTATG	CCGTTTCAAC	AATCGTAACC	AATTTCTCAA	7680
Aaaagttaaa	TCTTATATTT	AGTACTCTGT	AAAACTCTTA	TCTAATCACG	TTGCTTATAC	7740
TCAATGAAAA	TCAAAGAGCA	ACTTTAAACT	AGGAAGCGAG	TCGCAGATTT	CTCAATGCAT	7800
AGCTTTGAGG	AATTGGGCAA	AAAGTCTTTG	ATATAGAAAA	ACGCATAGTA	TCAGGTGTTT	7860
CAACACCTGA	TACTATGCGT	TTTATTGTGG	GAAGATTTAC	TTTTTTTTTT	CTGAAATTGA	7920
GTTGTTACCC	AGGCTCTTTC	AGTTTATTAA	GGCTTGATGA	CTTTAATGTG	TTTAGATAGC	7980
TTAAAAAGGA	TTGAATCACT	TAGTTTAGAA	TCTGAAACAA	TAGTATCAAG	ATTTGATACA	8040
ттатааааад	TATAAAAATC	AAACTTATTG	AACTTGCTAT	GATCTGCGAG	TAAATATTTT	8100
TTATTAGAAT	TATTTAAAGC	GATGCGTTGA	GCCTCTCCCT	CTTCCTCGCT	AAAAGTAGCT	8160
AGAGCTCCGT	TTTGAATACC	ATTACAGCTA	ACGAAAGCTT	TAGAAAATTG	GAGATTAGAG	8220
AGATTTTGTA	GGGTCAATGT	ACCAACAAAA	GCACCTGTAA	TATCGCGATA	ATTTCCACCT	8280
ATTAAAATCA	AATCTGTTAA	TTTTCGTTCG	CTTAAAATCA	GAAAAACAGG	TAGACTGTTG	8340
GTTACGACGC	GGATATTGTC	AATAGGCAAC	TCACGCGCAA	AAAACTCTAA	TGTTGTTCCT	8400
GGTCCAATGA	AAATAGTTTC	TCTTTCTTCT	ACTAGACTGC	CTGCAAAATG	GGCTATTTCT	8460
TGTTTTTCTG	CCGTTTGGAG	GGCTTGTTTT	TCAATATTTG	ATCGCTCATT	AGTCAAAAGG	8520
GAGTTGGTTC	GAAGTTTTTC	AGCTCCACCA	TGCACACGAA	TCAGCAAATC	ምም እምሮልርርጥ	8580

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AATTCCTGTA	AATAGCGCCT	TGCAGTCATA	TCTGAAACGG	CTATTTCGTC	CATAATCTGT	8640
TTAACTGTTA	T					8651

(2) INFORMATION FOR SEQ ID NO: 182:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3786 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 182:

60	CCGTTCACAA	GATAATAACT	AGAAGAGGAG	TCAGCTACAA	CAGTGCCACT	AATCTCCAAT
120	GGTCTTGTAA	TGCTTGACTT	CGGTTTCACT	TAGAAGGAGT	GAATAATTGA	GGACAGACAA
180	AGGGCTGTAA	CACACACAAG	CAATGCTAAT	AGAATGATTC	ACTGGCAAGC	TGATWTGGAG
240	ATTGGAATTG	AGTGAGGAmG	TAGCAATAGĆ	GCAAAGAAAC	ATCAAAGAAA	ATCGTAGGCT
300	TCCTGGTGGA	CCAGTCCTTT	TGTCTAGCGT	TGGAGAACCT	ACTATATTGT	CCAAGAGTTG
360	GTTGTCGCTA	GAAGAAGAGT	GGAATGAAAA	CTACCCAAGA	CACAACGAAA	TAAATCGTCT
420	AAGCGACTGT	CTGCTCAGGG	AAGGAGCTAG	AAAAGAGTTA	GATGATAGAA	CTAGGATAGA
480	AAGAAAAAGG	ATAGATACTA	GTTTGATGTG	TAGTAAGCAT	TATATGTCCA	TAATGCTTGC
540	ATACTTGTTT	ACTGTGTGTG	AGGCTGTGTA	AGCAAGAGAA	AAACAGAATG	AAGATGCAGA
600	TCAAGCACTT	AGACCAAAAA	CCACTAGCCA	TTGATCGCTT	TGTAGGAGAT	CCAACTTACT
660	CTTTCTAAAG	GATATAAGGA	CTTGGTCGGG	GATTTTGGAG	TTTATCCCTA	GCTCTTTCCA
720	GCTTCTTGGC	CTGAGGAAGA	TTGCTTTTTG	TCTTTCGTGG	AAGAAGTGGC	ATTTACTGAT
780	TCTTCAGTAG	GTCTGGCTCT	CTTTAGAAAG	TTTTCTGTTT	TATAGTGACT	TCTCTTCAGC
840	GGAGCTTCAA	ACTGTCTTCA	TTCTCGCTTC	TCTATTTCTG	CTTCTTTTCT	AATTAGATGC
900	TCCTCTAACT	AGGGACTTCC	CTTCAGCTTG	TCCAATTCGA	TTGCTGGCTT	TTTTCTCTTC
960	TTGTCTGCAA	TTCTTCAGCC	CGGCTATCGT	GTATCGAGAT	TTCAATTGGT	GAGTATTTT
1020	TCATTACTTT	TTTTACAAAA	TGCTTGTTGT	GGCTTGTTCT	TTGCTCTTCA	CCTCTTGAGC
1080	GTTTCCATAG	AGATAAATAT	CTTTTTAGTT	GTAGAACCTC	TTGTTTCATG	CAAACCATTC
1140	CAATATTATC	GATATTAGAT	GCTTGGTGTG	GTCAACGTCT	AAGCGTTTTT	TAGCAAATGT
1200	AAGGGTTGCT	TCAGTTTTGT	ATCGGTTTTT	GATCCTTGAC	GCAATGAGTT	ATCAGATCTC
1260	AACCATAGTT	TGGAAGATAG	TCTTGTGAAT	CAGGCTTTTC	CCTCTTGATT	TAATTCCGTA

			1128			
GCTTGAGATG	TCCCAGTTAA	TTCGTTGGCT	TTCTTTCTGG	TCTAGGATGA	TTCTGAGATA	1320
ATCTTTGGCA	GTCAGTTCAA	CCTTGCCATG	GACTTGGATA	TTTTCAGCGT	GGAAGTGATT	1380
CTCTGTTGAC	TCTAGCTGAC	TATCTGTAAG	AACTGTATCA	AAGATATTAA	CGATATTGGG	1440
CGTTGTGAGT	TTACTGTTTT	TGATACGACT	TCCTTCAATT	CGGAGGATAT	AGCTGTTTGT	1500
ATTGAGGGTC	GCATTTTCAA	GGCTAGCATT	TATGATGGTG	GTTTGTCCGC	GATTGGCTGA	1560
GATGTTGATC	CCTTTTAGAG	TTCTCCCTTT	TGGTAGTCGG	AGAATAACTT	CTTCAAAACG	1620
ACTAGAGTAG	CTACTTGCGA	TATGAAGAAT	CCCACCAATT	CCAGAAGAGA	GAAACGGAGT	1680
TTCAGACAGT	TTCTTATCAG	TGAGACTCAG	AGTTCTATCG	TTCTGATTGG	TGATAAGATC	1740
ATGGTGAGCA	GAAAGAGATG	GATGGTAAGA	AATGTGGATT	TGATCATCGA	AAGAGTCTGT	1800
GATGGTGAGC	GTGTGTTGGT	GGAGAGTAAT	TTCTAGGTTT	TCGACTTCCT	TGCCAAAGGT	1860
TAGCTTTTCC	GTACGGCTAT	CATAGACAGG	TTCTTTGGAC	ATGGAAAGTA	GGCTCTTAAt	1920
CCCGTCAGAT	TGGATACCTA	CAAAAAGCAG	GATAAAGCCG	ATAACGGTAG	TCACCACACC	1980
AAAGATGAGA	AATCCTTTTG	TCCATTTACG	CATGCTGATT	ACCTCTCTTT	CCTTTTTTAA	2040
GAACAAATTG	TACCAGACGA	ACAATGAGTA	GACCGAAGAA	GCGAGTTGCA	TAGGAAATGC	2100
CAAGTAAAAC	TAGCGAAGAA	GCACCGATAG	CCAGTAAACC	AGAACCAAAA	ATCAAGATAA	. 2160
AGGCTGATTT	GGCTTGGGCG	AGGACAGTGA	AACTTTCAAC	TAAAAATAGG	AATCCGCCGA	2220
TGATACCCAG	TATGGAAACT	GCAAAGAAAG	CCAGAATGAC	AGTCAAAGCG	GCTACAAGAA	2280
TTGCGAACAG	GGTCACGAGG	ATGGCGATTC	CCAGAGGAAT	GCCGATAGGT	GCTGCAAGGA	2340
GGGCTAACAA	GGCGATATGT	AAAATTTGTC	GGTTATTTTT	TTGAGCGGGT	GCTTCATTGA	2400
TTTTTTTATC	GAGAAGATTG	GATAGAACTT	CGTGGGCCGC	TTCTTTGGGA	GTTCCCAAAC	2460
TAGCGATGAG	TTCTTCTTCT	CCTTCGACTC	CAGCATCGTC	AAAGAGCTCT	CTGAAATAGT	2520
CCATGGCTTC	GATACGGTCA	GCTTCAGGTA	GTTTCTTGAG	ATAGAGTTCT	AGCTGAGTCA	2580
GGTATTCAGT	TCTTGTCATG	GCGGATACTC	CCTTCTATGA	TGCCATTGAT	GGTGTCTGTA	2640
TAGAGTGCCC	ATTCATCTTT.	TAGGGTCAAG	AGCTGCTCTA	TACCACCGTT	TGTCAAGGAG	2700
TAGTATTTGC	GCATGCGACC	TTGGAACTCT	CTAGAATAGG	TTGTCAGAAA	GCTATTGCCT	2760
TCCAATTTTT	TGAGAATGGG	ATAGAGTGTG	GATTCTTTGA	TATTAGCGAT	CAGCTTAATG	2820
GTTTGGCTAA	TCTCATAACC	ATAAGAATCA	CCCTGCTCCA	GTACAGCCAA	GATGAGAAAT	2880
TCAATCAAGG	CAGAGGATGT	TGGAAAGTAC	ATGGGAAACC	TCCTTTTCTA	ATGTGTAAGA	2940
TTTTTATATA	TAATTTTTCT	ACACATACAT	TGTACATCTA	AAAGAAAGCC	CTGTCAAGAG	3000
aaatgtgtaa	AATTTTTATA	TATAAAAAAC	TTCTAGCTAA	AACTAGAAGT	TTAAAGGATC	3060

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PCT/US97/19588

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TTATCCGCTC	TGTCCACTGT	AAAGAGGCC	ACAGTCATCA	GGATATCGAT	GAGCAAGAGG	3120
GCAGCTACAG	ATGGTACCCA	AGAGTGGAAC	AGGTCAAAAC	TGTAACCAAA	GAGGGTTGGC	3180
CCAAAGGCTG	CTAGGATATA	GCCTCCTGTT	TGAGATAGGC	CGGACAATTG	GGCTGTCTTT	3240
TCAGGGGCGC	TTGTCTTGAG	TGAAAAGTTG	ACCATGAGAT	AAGGGAAGAG	GGCACTGGTT	3300
GCGGTTCCGA	TGAGGAGATG	GATGGCAAGC	CAGTAAATGA	AATTATTGAT	TGGGAAAAAG	3360
AGCATGGAAA	TGCCGACCAC	ACCAGCTAGT	GAAACCAGAG	TGAGCATGAG	CTGACGGTTG	3420
CGAGTAGATA	AACTGGTTGT	CAGGCTTGGG	ATGGTCATTG	AAAAAGGAAT	GCTAATCAGA	3480
GATAAGATAG	AAGTCAGCAA	GCCAGCTTCG	TGACTGGATA	GACCTGCATG	GATAGACATG	3540
GTAGGTAACC	AGGTCATGAC	GGTGTAAAAG	ATCAAGGATT	GAAAACCTGA	AAAGATAATA	3600
ATTGCCCAAA	CCTGTTTATT	ACGCATGACC	TTTATTTGAC	TTTTTTGTTT	GGTTTGTGGA	3660
GCTAGTCTAT	GATTATAGCG	GTGATTTGGG	AGCCAGACCA	AAAAAGTTGC	TAGACAGAGT	3720
AACGTGAGGA	GAAGGATAAG	TCCTTTCCAA	GAACTGGCTT	GTGTAATGGG	CACAGCTAGA	3780
TAGGAA			•			3786

(2) INFORMATION FOR SEQ ID NO: 183:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 3054 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 183:

TCAGCTAAAA	AACATTGCTA	AATTGATTGA	AGCTGGTGCT	ACACATTCCG	ATTCAACTTC	60
TCACACGGCG	ACCACCAAGA	ACAAGGTGAG	CGTATGGCAA	CTGTTAAACT	TGCGGAAAAA	120
ATTGCAGGTA	AAAAAGTTGG	TTTCCTTCTT	GATACAAAAG	GACCTGAAAT	CCGTACAGAA	180
TTGTTCGAAG	GTGAAGCTAA	AGAATATTCA	TACAAAACTG	GTGAAAAAAT	TCGTGTTGCA	240
ACTAAACAAG	GAATCAAATC	AACTCGTGAA	GTGATTGCGT	TGAACGTTGC	TGGTGCTCTT	300
GATATCTATG	ATGATGTTGA	AGTTGGTCGT	CAAGTTTTGG	TTGACGATGG	TAAACTTGGT	360
CTTCGTGTGG	TTGCTAAAGA	TGATGCAACT	CGTGAATTTG	AAGTTGAAGT	TGAAAACGAT	420
GGTATCATCG	СТАААСАААА	AGGTGTGAAC	ATCCCTAACA	CTAAAATTCC	TTTCCCAGCT	480
CTTGCTGAAC	GCGATAACGA	CGATATCCGT	TTCGGTCTTG	AACAAGGTAT	CAACTTCATC	540
GCAATTTCAT	TCGTACGTAC	TGCAAAAGAT	GTGAACGAAG	TTCGTGCAAT	CTGTGAAGAA	600

			1130			
ACTGGAAACG	GACATGTTCA	ATTGTTCGCT	AAAATCGAAA	ACCAACAAGG	TATCGATAAC	66
TTAGATGAAA	TCATCGAAGC	AGCTGATGGT	ATTATGATTG	CTCGTGGTGA	TATGGGTATC	720
GAAGTACCGT	TCGAAATGGT	TCCAGTTTAT	CAAAAAATGA	TTATCAAGAA	AGTCAATGCT	780
GCAGGTAAAG	TTGTTATCAC	TGCAACAAAC	ATGCTTGAAA	CAATGACTGA	AAAACCACGT	840
GCAACTCGTT	CAGAAGTATC	AGATGTATTC	AACGCTGTTA	TCGACGGAAC	TGACGCTACA	900
ATGTTGTCAG	GCGAGTCTGC	AAACGGTAAA	TACCCACTCG	AGTCAGTAAC	TACAATGGCT	. 960
ACAATCGACA	AGAACGCTCA	AGCTCTTCTT	AATGAATACG	GACGTCTTGA	TTCAGATTCA	. 1020
TTTGAGCGTA	ACTCTAAGAC	AGAAGTAATG	GCTTCTGCTG	TTAAAGATGC	TACTAGCTCA	1080
ATGGATATCA	AATTGGTTGT	AACTCTTACT	AAGACAGGTC	ATACTGCACG	TTTGATTTCT	1140
AAATACCGTC	CAAATGCTGA	CATCTTAGCA	TŤGACATTTG	ACGAATTGAC	AGAACGTGGC	1200
TTGATGTTGA	ACTGGGGTGT	TATCCCAATG	TTGACAGATG	CTCCATCTTC	AACTGACGAT	1260
ATGTTCGAAA	TCGCTGAACG	TAAAGCGGTA	GAAGCAGGTC	TCGTTGAGTC	AGGCGATGAT	1320
ATCGTTATCG	TTGCTGGTGT	GCCAGTAGGA	GAAGCTGTTC	GCACAAACAC	AATGCGTATC	1380
CGCACAGTAC	GTTAAGAAAA	ATATAAAAAC	CTATCATATC	CAGCTTTAGA	GCTTGTGTGA	1440
TAGGCTTTTT	GTATAGAGGG	TAAGAAATAG	GCAAAACTTT	CATAATGGAT	TGATACTCTT	1500
CGAAAATCTC	TTCAAACCAC	GTCAGCGTCG	CCTTACCGTA	TATATGTTAC	TgACTTCGTC	1560
AGTTCTATCT	ACAACCTCAA	AGCAGTGCTT	TGAGCAACtG	CGGCTAGCTT	CCTAGTTTGC	1620
ICTTTGATTT	TCATTGAGTA	TGAAATAAGA	TATGCACAAA	TTGATTAGAA	AGTCAAATGA	1680
АТТТСТАСАА	ATGTTTTAGC	AATCGTAATG	TACTTGTCTA	GATTCGATCT	GATATATTT	1740
CGATTTAATG	ATATGGTATT	TAAAACCTCC	AAAGTAGCTT	ACTCCATTCT	TTTACTTACG	1800
rgag tg taga	TGTTATTTAC	TGTTTTAGCG	TTTTTGTGTT	CCACTCTAAC	CATTATAGCA	1860
PTCTTCTCAG	CTAGTGTACT	AAGGAGTGTG	TGCCTGAAAA	TATGGGAACT	AAGGGGCTGG	1920
PTTATCGGTT	TCTCTAGTTT	AGTATTTGCC	TTTTGCAAAG	TGATCTTAAA	TGCCTTTCTC	1980
PAAATTTACA	TATCACTATT	GTTTAACAAA	ATCTAATCTA	TTTTAGGTCA	CTTATTCTTT	2040
TTTTGAAATG	TAGAATGAAC	TTTTTCAAAG	TTTTTCGAAT	CTTTTAAAAT	CTGTTTGCTT	2100
PATATCGCCA	TTCTCCCCCC	TTTTTTTATT	CTCCCTATAT	AGCCTGACAG	CTTTCCCGAT	2160
GGTACGAATA	TGGTTGCTTT	CGTCTAGGTG	GATGTCGGGG	TATTCGGGAT	TGAGTTTTTT	2220
rgaggcagcc	TTGGCGGAGT	TTCTTGACAT	AGTTAGTGCC	GTCTACTTGG	AAGATGCCGA	2280
rggtattata	GTCAATCTGT	GGGGTATTCT	TGATAAATAG	GTAGTCGCTG	TTTCTTATCT	2340
ртесстесат	GGACTTGCTG	ACGACATAAG	CGATTGGGTC	GTAGTCGTCT	CCCATA ATCC	2400

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AAACTCCATA	TCTAAATCGT	TGTCCTGCAT	CGÄGCGGCTA	CCTGCAGAGA	TAAACTACCT	2460
AACACGAGAG	TAAGTAGTCT	GTCTGTAGTC	GTCCAGTCTG	ATGATTTTTA	CGATACTTCG	2520
ТТТТТСТСАТ	CATACAGTTG	CCTCTCGGCA	TAGGTCAGAA	CTTTACCTTG	TCTGGGTGGT	2580
TCCCGTTGGT	CGTAGATAGA	TTGGATATCG	CTAGGAGAAT	CCTTTTGAAC	TGGAGGAAAG	2640
AGGGCATCGA	TCAAGCTACT	GAATACTTTA	ACTAAGTCAA	ATATAGTATT	тттсттаста	2700
GACCTAACCC	TTTTTTCATA	ATTTCTAATG	GTGTTTTTAC	TTATACCTAT	CTTAGTACCC	2760
AATTCTTATT	GAGTCCAACC	ATTACTAGTC	TATATTGTTT	TATAGTTGAT	TGAGTTTGGA	2820
ATAGTACGCT	GTAGCTGCTA	AAACATTTCT	AGAAATTAAT	TTGACTTTCC	TAATAGAGTŢ	2880
GTTCATATCT	TATTTCAATC	TATTATGTTT	TTCACCTCTA	ACAATCGCAA	TCTCTTCTTT	2940
ATCCATGAAT	GAAATCGCTT	TCTATTTTTG	TAAGTAAAGC	ATAACACGAA	ATCCACGAAA	3000
ATGAAAACCT	TTGTTGTGTT	TTCGTAAAAA	ATTTGTTGAC	AGAGCACGAA	ACGC	3054

(2) INFORMATION FOR SEQ ID NO: 184:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1590 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 184:

TGTGATTTTC yGAAAATTTG GTAAAATATA TCTTAATCAT TTTCAGGAGG ACAAAAATTT 60 GACAAGATAT CAGAATTTAG TAAATGGAAA ATGGAAATCA TCTGAACAAG AAATTACGAT 120 TTATTCACCA ATCAATCAAG AAGAATTGGG TACAGTTCCA GCCATGACTC AGACTGAAGC 180 TGATGAGGCT ATGCAAGCTG CGCGTGCAGC CCTGCCAGCA TGGCGAGCTT TATCAGCAGT 240 TGAACGTGCG GCTTATTTGC ATAAAACAGC AGCTATTTTA GAACGCGATA AGGAAGAAAT 300 TGGTACTATC CTTGCCAAAG AAGTAGCAAA AGGGATTAAA GCAGCAATTG GAGAAGTAGT 360 GCGTACAGCA GACTTGATTC GTTATGCTGC TGAGGAAGGT CTCCGTATCA CTGGACAAGC 420 AATGGAAGGT GGTGGTTTTG AGGCAACAAG TAAAAACAAA CTGGCTGTTG TCCGTCGTGA 480 ACCAGTTGGT ATCGTGCTAG CGATTGCTCC CTTTAATTAT CCAGTTAATT TATCTGCTTC 540 TAAAATTGCA CCTGCCTTGA TTGCAGGGAA TGTGGTCATG TTTAAGCCAC CAACACAAGG 600 TTCCATTTCT GGACTCTTGT TGGCTAAAGC ATTTGAAGAA GCAGGGATTC CGGCAGGTGT 660 TTTCAACACC ATTACAGGTC GTGGTTCAGA AATTGGGGAT TATATCATTG AGCACAAAGA 720

AGTCAACTTC	ATCAACTTTA	CAGGTTCAAC	1132 TCCTATTGGA	GAACGTATTG	GTCGTTTAGC	780
TGGTATGCGT	CCTATCATGT	TGGAACTTGG	TGGGAAAGAT	GCAGCTCTTG	TACTAGAAGA	840
TGCAGATTTG	GAACATGCTG	CCAAGCAAAT	TGTTGCGGGA	GCCTTTAGCT	ACTCAGGACA	900
ACGTTGCACG	GCCATTAAAC	GTGTCATTGT	TCTCGAAAGT	GTAGCAGATA	AATTAGCTAC	960
TTTGCTTCAG	GAAGAAGTTT	CTAAATTAAC	AGTTGGTGAT	CCATTTGACA	ATGCTGATAT	1020
TACACCTGTT	ATTGACAATG	CTTCAGCCGA	CTTCATTTGG	GGCTTGATTG	AGGATGCACA	1080
AGAAAAAGAA	GCTCAGGCTC	TTACACCAAT	CAAACGTGAG	GGCAATCTTC	TCTGGCCAGT	1140
GCTTTTTGAC	CAAGTTACAA	AAGATATGAA	AGTGGCATGG	GAAGAGCCAT	TTGGTCCTGT	1200
TTTACCAATC	ATTCGTGTGG	CTAGTGTAGA	GGAAGCTATT	GCCTTTGCCA	ACGAATCTGA	1260
ATTCGGCCTT	CAATCATCAG	TCTTTACAAA	TGATTTCAAA	AAAGCCTTTG	AAATTGCTGA	1320
AAAACTTGAA	GTAGGTACAG	TCCACATTAA	TAATAAAACC	CAGCGTGGTC	CAGATAATTT	1380
CCCATTCCTT	GGTGTCAAAG	GTTCTGGAGC	TGGAGTGCAA	GGAATTAAAT	ATAGCATTGA	1440
AGCGATGACA	AATGTCAAAT	CCATTGTTTT	TGATGTGAAA	TAACGTGTAA	AACCAGGAAA	1500
TTGTTTTCCT	GGTTTTATTT	TTTTGCTATA	АААТААТААТ	AATTATAGAA	AAAATACGAA	1560
CTTTTTGGTA	TTATAATAGA	TTGAAACCGG				1590
(2) INFORM	ATION FOR SE	EQ ID NO: 18	35:			

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 4848 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 185:

CCTGCAGTTG	TCAGACCTGT	AATTTTCTTT	TTATCTGTAA	TAAGAATCGT	TCCAGCGCCT	60
AGAAAACCCA	CACCTGATAT	AACTTGAGCT	CCTAATCGTG	TAGGATCTCC	TGTCCCAAAT	120
TTATAAGATA	CGTATTCATT	CGTCATCATA	ATCAAACATG	CAGCTAGACA	AACAATACTA	180
TAAGTTCGGA	TGCCTGCAGG	CTGGGATTTG	CTCCCTCTCT	CTAAACCAAT	TATACTACCA	240
ATGACTACTG	ATAAAACAAT	CCTGACAACT	ATTTCAATAT	TTGATAACCC	AAGACTAGTG	300
GCTGTCATGA	TTATTTCCTT	ACTTTACGCC	CCGGTCTTTG	TGTGAAGTAT	AATACCGTTC	360
CAGAAATAAT	CATCAGAACA	ATTGTATAAA	CAAATACCAG	AGCTTGTGCA	TTAGATGTTG	420
CTGTTTCATC	ACCTGCAGAT	CGAATCGTAA	TACCTAATGG	TTGAGCTAGG	GGATGGTAAA	480
GGAATACAGA	TAAGTCGAAG	TCAGTTAATA	AAGAGTTAAA	GTTTAAAGCA	ATAACAGAGA	540

600	GGTGAAGCAC	AGTATAAAAA	CCTTCATCAT	GGAATGATAA	TAAAATAAAT	SAACAACCGG
660	GCACGTACCA	АТААААТАА	CATCAACACT	TCCATCTCAT	TGCTGCATCT	CATACTTCT
720	ACCAAACTAC	AAGTAGAATT	TATATGCAAT	TTTACAACTA	AAATGGGATT	TCTATAAGA
780	AATAAACTTA	AAAAGTAAAT	GTGGCTGATT	ACAAGAAATT	CTGATTCAAG	ТАССААААТ
840	AATAAGAAAT	ACCATATTCA	GAAGTAGAGC	AGTAACCAAG	TGTACTTGGT	TGCTAAAAG
900	ATTGTTGCTG	AACTGCGAGA	GAGCAAATAC	CTGACAACAC	TTTATGTTTT	:AAAACGAGA
960	GCCGCACTAT	TGGAGAGAAT	TGACCAAGAA	TAAATAAAGC	AATAATAGAA	TGTCGCAGC
1020	TTACCTGTTT	TAATGTTAAG	TAAAGTTTGA	TTTTCTAAAG	TAAGCGATAA	ACTAAAGAA
1080	AGCATGAAAA	AATTAGTGGA	АТАСТАТААА	AATGAGTATA	TGGATCTGTA	SAATTGCAAC
1140	GACGCAATTT	CCAAGGCTTA	CAATGATATT	ACAATGTGAG	TCCATATGCT	TGTGAACAA
1200	CCTTTTTCTA	АТААТТТССА	AGATAGAAAT	TTAGTCTTAG	AAGAGGCGCT	TTGTTTTT
1260	GCAAGTAGGG	ТААААТААТТ	TTGCAATACC	AAAATTGTAG	GATAGTAAGC	CTTATTCAT
1320	TTTATAGTTT	AATCATTGGA	CAAATGTAAT	CCCATCCCTG	ACGAGAATTC	CAGCTAAATC
1380	CTAAGAAAAA	AGATAAACCA	CTGCTACTGC	ATCATGGGTG	ACCACCAACA	AAATTCTTT
1440	TTTCGGAAAA	TAACACTACT	TTAAGGTTGG	AGAGTTGGAA	AAGTGCAAAT	CATAATAGT
1500	TCAACGCTTC	AGTGTGATAG	CAGCCTCAAT	ATATTTCGAG	TTTTGCTCCC	CAGTAAATGG
1560	ATAATGAATA	TGAAAATGTC	TAGCAGTTCC	AATGTATGAT	TGTTAAAAAC	AATTGTA TT
1620	TTTTGTAAAA	AGGGATAACA	GGTCTAAAGA	AACCAGTTAG	ATACCCAATA	GACTGCACC
1680	AAAACCACTC	TCCAGTCGCT	CAAATTTATA	GGACCATAGA	CAATCCATAA	TTTTGTAAT
1740	TTAATATCAA	TTTAGCACCT	TAAAAT	ATATAACCTA	TAAAGAGGTC	TCCATAAAT
1800	ATGAGTGAAA	AACTGTAATA	CTACGACATT	CAAAGAATAC	AAATAGAACA	GTACTCTGT
1860	AGAACACGAT	CTGAGATTTT	GAAGTGCCCT	ATAATACTCT	AAAACTGTTC	TGCTAACTT
1920	AGATCAAAGT	ATTCACTACT	TTACAAATAC	TCTCCTCCTT	AAGGGAAAAT	STACAGCATC
1980	AGCCAATCTT	TAAACGAATA	AGATTAACCC	ACTAAGAACC	AATAAATGTT	TGGATAAAT
2040	CTGATGGTGT	TGCAGAACGT	TCCTTAAAAT	ATACTGCACC	TTTATGACGC	AATTTAAAT
2100	CAATACTTGT	GCCTGACTAT	TCTAATAGCA	CTCCGACAGA	TCCACACTTT	TAATAAATA
216	CTCCAGAAAA	TGAATTGTAA	TATTGTATAG	CAGAAACTTT	ATCTGACTTT	TACATTAAGA
2220	GATTGAATCG	TCAGTTTCAC	AAAATCTTGT	CTTTTAGAAT	ATAATTGTCC	TCAACATCA
2280	TATTTTTCAA	AAAACGCTTG	ATCCTCTAAG	ATCCTTTTTT	AATCGAATGT	ACTTTCTCT

1134 TAATACTTCG TGGACTGTTT CATCGGTCAA AACATTAATA TCTCCAATAA AATCACATAC 2340 AAATTCAGTT TGAGAATTAT GATAAATCTC TACTGGTGTA CCGACCTGTT CGATGTATCC 2400 ATTGTTAAAG ACTGCAATTC TATCAGATAA AGTCAAGGCT TCCTCTTGAT CATGAGTAAC 2460 ATATAAAGTA GTAATACCTA ACTCTTTTTG AAGTCTTTTC AACTCTTTTC TCAAATCTAC 2520 ACGTAATTTT GCGTCAAGGT TTGACAATGG TTCATCTAGA CAAAGAATTT TAGGTTCAAG 2580 AACCAGAGCA CGAGCCAATG CTACCCTTTG TTGTTGACCC CCAGATAATT CTGATACATT 2640 ACGCTGTAAC TGTTGATCAG AGATCTTAAT TTTTGCTGCC ACTGCTGATA CTTTAGCTTT 2700 AATAACATCT GGAGCTACCT TCTTAACTTT TAAACCAAAT GCAATATTAT CAAAAACAGT 2760 CATAGTTGGA AATAGCGCAT AAGATTGAAA TACAATACCA ATTCCACGCT TTTCAGGTTC 2820 CAAATGAGTG ACATCTGTTC CATTAACTTC AATACTTCCT GATGATGGAT CTAGAAAACC 2880 TACCAATGCT CTCAAAGTAG TTGATTTACC ACATCCTGAA GGCCCAAGAA ATGTAAAAAA 2940 TTCCCCTTCA TGTATATCTA AATTCAGATT ATCAATTGCA ACAAAATCAC CATATTTAAT 3000 TTGAATATTA TCAAATTTAA TCATCTCACT AACTCCCTCT ATTACTAAAC CAAAAGCCTC 3060 TCTTTATTC TTCCATAAAT TTAGAAATAA TAGAGAGACT TGGACATAAA AATTAACTCT 3120 TATTTCTTAT TGTACGTATT CTAATTCAGC TTTTTCTACC CATTCATCCA AATGCTTTCC 3180 AACAGCTTCC CAGTCAATAT TTTGTGGTTT CACTTGATCA ACAAATTTCT TCGTATCTTC 3240 AGGTAGATCT TTGAGGGCAT CTTTATTTGC AGGAATAGAT CCAAAGTTCT TACTATATTC 3300 TACTTGAATT TCTGATTGAC CAAACCAATC AATAAATTCT TTAGCTAACG CTTGTTTTTT 3360 ACTAGTGCTT AAAACCATAG TTTGTTCAGT TACAAATGGT ACACCAATCT CAGGAGTCAT 3420 AACTTTGAAA ACAACATTTT GTTCTTTTTG TCCAACTAAT GCACCAGAAC CCCACATCAT 3480 TCCATATTGT ATTGGATCTT CTTTGTCTAA CATCTTAACA ATTGAACTTT CTCCCTTTTG 3540 AAGAGTGTAT GCATTTTTCA AATATTCTTT TGCTACTTCC CAACCTTTTT CGGAAACACC 3600 TAATTCACCT TTATCATCAA GGTATCGAAC TAAGATACTT GCTAGAATTG CCCGTCCTGT 3660 ACCTCCTTGA AGACCAGAAA TTGAATATTT ACCTTTATAC TTACTACCTA ATTCAGTCCA 3720 ATCTTTAGGC ATTTCTTTTA CATCAGGCGC CCCAATTAAA ACTAATGGTT GAACAATCAC 3780 AGGATTATAA TAATTATCTT TATCTGATAA AGATTGATCA ATTTTATCTA ACCATTTAGG 3840 CTTGTACTGT ACTAGTAATT TTTGATCTCT AATTTTATTT GAATCAACAG CACCAATTCC 3900 AAATACCATA TCTGCAACTG CATTATTCTT CTCAGCAATA ACACGGTCTG CTAATTGAGC 3960 GCCAGCGATA TCAACCATTT TTATATTAAA ACCAGCTTCT TTTGCTTTAG CAGTTAACCA 4020 ATCACCACGA CCATTTGAGA CTGAGTTCGA ATAGATAACT AATTCTTGAC TTTTATCAGC 4080

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ттттсттса	GATGAAGAAG	CAGTCGTAGA	ATTTGAACCT	CCAGAGCAAG	CAGCAAGTGT	4140
AGTAAgAGCA	ACTCCCGTTG	CAAGTACAGT	AGACCAAACT	TTCATTTTTT	TCATGATAAG	4200
TTCTCCTTTT	TTATTATTTT	ATTTAAATTT	TTCGTGATAT	GGAACAAATT	GTCTCATATC	4260
TTCAAATACA	GTATAGTCAA	TACGGTTTAC	AGTAATAGTT	GGAATCTTCT	CTAATAAAAT	4320
TTCAGTTAAT	TCTGCTCTGA	CTTTAGTAAA	CTCTTCTTCC	TCCTCTTCGG	TTAGAGGAAT	4380
CCGAAGATAC	CCAATTGAAA	TATGGAATTG	ATATCTATCA	TGATTAGGGA	AACAAACACC	4440
TGCTTTTTCT	GAGACATAAG	TACGAATTTC	TTCTAATCTC	TTTGCAGAAG	CTTCATCTGC	4500
AGGTTCAACT	AGTATGTTTT	GTTTTCCCAT	TTCAGTTATA	CGCATATGAA	TTTCTTCATC	4560
CAACAATGGA	AAAATTTCAA	GTTGTTTAGC	AAAGTAATCA	TGTATTTCCT	GTAAAGGTGT	4620
ATCTAGAGGA	AGATTACTGC	TCCAAAACTC	gtTCACGATT	TTCATGGCAC	AACAATTCAA	4680
TTACAGTCAT	GTGAATAGAA	TTCCTTGGAG	TTAAAGTAAA	CTTATCGATA	AATGGTAATT	4740
CTCTATAACG	TGATTGAATA	ATATCAACAA	CTTCCATCAA	ATCTTGTTTA	GTATAAAGAT	4800
TTGCTACAAC	TGTATTCCCA	GGGAAATGAT	TAAATTCCCC	ATTCTCGG		4848

(2) INFORMATION FOR SEQ ID NO: 186:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 3763 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 186:

GT'	PATAAGCA	ACACCTTCTT	GCTTGCCATA	AGTTGTGAAA	TGGGTAGAAT	CGATATCTAC	60
AA'	rgagttgg	TTTAGCTGGT	GAAACTGTAA	AAAGAATTCG	ACCAATTCAA	GGTTGAGGCA	120
TC	GCAAACTA	TGGACTGTTT	CCTCGTCAGT	TCTGGAAAGA	AAACGGGATA	AGGTTGGCTG	180
TG	AAGCAAGC	TGCCCTCCTT	CCAATAATTT	TGGAAAGTAG	GCATCAGCTG	ACAATTCTTT	240
AC	AAGCATAG	TCCGTTCCAT	AACCTGTTAA	CAGTTGAAAG	AGGAACTGGA	CAAGGATATC	300
TG	AATCCGAA	TAACGACAGT	AGCGGCGTTG	GTCATTCGTT	ACTAAATACT	TAGAAATCCG	360
CT	CTTTTAGT	TTCAACTGGG	AAAAAAGTTC	CTGAAAAAAG	ATAAGACCAC	CATACTGGGT	420
TA	AATGACCT	CCATCGAAAG	ATAGTTGGTA	AAAAGACTTG	TTTTGGAAGT	GATGATTTGG	480
TA	AACTGTTC	ATGTGAGTTT	CCTTTCTTTT	TGTGTTTTTT	TCTACACTTA	TACCATAAAG	540
GG	GAAACTCT	TTTTTGTCTA	GTAAAAAACA	CCCATTGGGT	GAAAAAAGAA	ACCATCCAGG	600

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ATCTAAGCTA	AGGCAAGGAT	TCTGGATGGT	TTTTAGATTT	GGGGTGAATA	ATTGGGGATT	660
TAGGAGAAAT	GATGGTATCT	TCCAAATCAA	AATCAACTTC	ACTCCATAGT	CTCAACTGAT.	726
TGATTTTCCC	ATCTTGATAG	GTCACATCCT	TGTCAAGGAT	AAACTGAGTC	AACACCTCAT	780
GTTGACCTTG	ACACCTGATG	TCATCTACCA	AGAGCCAGAC	ATCCTCTACC	AACATGAGGA	840
TTTTTCTCCT	GTGAAGATAA	GGCAAATCAG	GTTCTGCTGA	CCAATAAGCC	CCCTCAATAT	900
AATGCACTCC	CTCCCTTTCT	TTATGGTGAC	AAAACAGGGA	GTGAGGATAG	TATTCATATT	960
CCCAGGATCC	CGTGATTCTT	TCCGGAGCTT	TCCCATCTAC	AATGCAGGTC	GAATGACTCC	1020
AAGCACTCTT	TAAGAGATAA	CGTTCATATA	TCTCCCGATA	AGAATAACGC	CCAGCATCTA	1080
TGAAAATAGG	TTGGCCTTGA	TACTGTAAGC	AAAAACTATT	CTCGTCACTA	TGACTATGGG	1140
CACTTCCTAG	CGGACCATTT	TTGAAAAATA	GATAACGATG	ТТСАТССТТА	ATGCAGACAT	1200
GTCCAGAGTC	TTCAAAGATC	ATGGACTTAG	GCTGCCAAGC	ТСТСТТТТСА	AATTCCTGCA	1260
GTCGCTTGAC	CTTTTCTCGC	CCCAGGAACA	AGAGGCTAAG	CAAATCAACT	TTAACATCCA	1320
GACCGTTAAG	AAGGTCTTCC	TGGTTCAAAA	CCACAGCAGA	CAGGCTCAAA	ATTTCTGTCG	1380
TTTCTGTAGA	ATCGCTATCA	CCAAAAGCCA	AAGTCCGTCC	ATCTAAGCCT	GTCATCATTT	1440
GAATATAGGT	CGCCATCTTT	TCCAGCAACT	CTTGGTAACT	ATCTTGCAAG	TCTGGAAGCA	1500
AGAGACACAA	ATCCAGCAAG	GCTTTATAAA	CCTCTACATG	ATAGAGAATC	GACTGTTCAA	1560
ACTGGCTTCC	ATCTCCTAAA	ATCTGTGTCT	CAATTTGCTG	TTTCAACTCC	TCTGAAGCAA	1620
AATGGTAAGC	TTCTTCTAGA	TCCATCTTAT	CTGAAAAGAA	ATGATAGATA	GCAAGCATCG	1680
GAATTGTTTG	TAAAATCCCC	CAGTTACTAA	GGGTGTACTT	GGCGCGATAG	TAGCTTTTCA	1740
TAAAGTCAAT	CTGCTTTTCT	AGACTGACCA	AAATTTTCTC	TAGTTCTTTC	TCCTCTAGCA	1800
AGTCAAATTT	CAAGAGGAGC	AAGAGTAGTT	TCAACCAAGT	AAAGGAACGA	ATACCCGTAT	1860
CCAAGGTTCT	AGTCATCAAG	GATTGAGGAG	AAAATTCTCT	CACCTGCTCA	ATCCAATCAA	1920
ATAGAAAGAA	CTTGCACTTT	TGAATATAGT	CCTTATCTCC	TTCTACCAGA	TACCCTATCA	1980
TAAACTGCAA	GAGATATTCT	TGTCGATTGA	GCATATAAGA	CCATTCTGGA	TCATCTTCAA	2040
ATACTTGATC	CCATACCATC	GGCTGGATTT	GATGGATTTT	TGAACAAGGC	TCCATATCCC	2100
AAGGACTATC	AAACATAAAA	CGATTGTCCA	TCAAGCGTTC	AAGGGAACTC	TTGACTTTCT	2160
CATAGTCTTT	TGAACAGTGC	GACAAGATAT	AATCACGACA	TTGATTTCCA	TCGACTCTTT	2220
CAAAAAATTG	TCTTCTTCT	TCTTTCATTA	TCTATTACCA	GAAAAAGAAC	ТАСТТААААА	2280
GCAGTTCTTT	TGTCTTTCCC	ATTACACTTT	CCTTTTCTAC	ATGGATGACC	ACACCTTTTG	2340
CAATCTGCAA	GGAGACCAAG	TCATCTTGGA	TAGAAATGAT	TTTTCCATGA	ATTCCAGACA	2400

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ATAACAACAC	TTCATCACCA	aatgttaaag	AAGCTAAATA	CTCTTGTCGT	TGCTCCATCT	2460
GTTTGCGAAG	CAACTTTTGC	TGACGAATAG	AATGAAAGCT	TGACAGTAAA	AGGGGACTCA	2520
CTGCCAAGAC	AATCACTATT	CCATAAAACA	ATGTTGTATC	CATTAAGCTA	TAATCTTAAG	2580
CCAGCTTCCG	ATAATTCCGA	TGATAACTGT	TAAAATAACG	AGTTTATATG	TTGTCCATTT	2640
CTTTTCTTTG	ATCAAGTAGT	AAACTAAAAG	TGTAAATAGG	GCTGGTAGAA	GAGCTGGAGC	2700
AACCTTATCA	AGCATTCCCT	GAATACTTAC	GATACTTTGT	TTAGCGTCTG	CTTTAACTTC	2760
CCCTGCAGCA	AAGGTAATCG	GCACCATAAT	CTTAACAGAT	GTCGCTGCCA	AACCAGCAAT	2820
TACGETACAC	CGATAATATT	GGCAATACGA	GAAATCGTTG	CCATCTGTTC	GCTTAGTTTA	2880
TCAATCACAG	TTGTTCCTAG	TTTGTATCCA	TACAGACCAG	TTGACAATTT	AATCGCTGTT	2940
AAAATCGTAT	TCATCGCAAG	GAAGAACAAG	ATTGGACCGA	CAACCAAGCC	TTCTTGAGCA	3000
AACGAAGCTG	CGATGGTTGA	GAACAATGGA	GCTAAACAGA	ATTGAGAAAG	AGAATCCCCA	3060
ATACCTGCCA	ATGGTCCCAT	CAAGGCCATC	TTGATGCTAC	GTGTTTCTTT	TGCCGGACGG	3120
CCATTTTCCA	ACATTACAAG	ATGCAAGCTG	GTAATAAAAG	GCAGGAAGTG	TGGGTTGGTA	3180
TTATAGAATT	CACAGTTTTC	TTCCAAGGCT	TGGTAGAAAC	CTTCCTGATC	CTCTCCATAG	3240
TGTTTTTTCA	AAGCAGGATA	CATCACATTG	GCATATCCCA	ACCCTTGATA	GTTACTATAG	3300
TTAAATCCAT	TTTGACAAAA	GAATGCCCGC	AAAGACGTTT	TAAGATAATC	ACGTTTTGTT	3360
aatttgttag	ATCCAGTCAT	CGTGTGCTTC	CTCCTCTACC	ACATGATCCG	CTGTTTTTGG	3420
CTTGTTATAA	AATTCAATCA	AAGCAAAGAT	AGTACCTACA	ATTGCAATAC	CAATTGTTGG	3480
GATGTTTAGA	TAAGCTGCAC	AAACATATCC	CAACAAGACA	AAGGGAATCA	ACTCTTTCTT	3540
AGCCATCACT	GACAAGATCA	TCGCAAAACC	GATAGCTGGG	AGCATTTTAC	CAGCAACTGT	3600
CAAACCTGTA	AGTAATACCG	GTGGAATGTA	GTCTACGAGT	TTCAACAAGG	TATCCATTGA	3660
AAGGGCACCA	AGCAACCCAA	GGTAAATCCA	ATAAAGGCAA	ACAACCAAAT	TGTTGCATTT	3720
AGAGTGAACT	TAAATTTCTT	CAAATTATGG	TTTTTCAAGT	GCT	-	3763

(2) INFORMATION FOR SEQ ID NO: 187:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 5053 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 187:

			1138			
CAATCTCTGA	GTATGTGCGG	TCAATACTAW	CAAAGGGAAT	ycctgacgtc	AAGTAATGTT	60
CAATTGGmCT	ATAGGTAATG	GCAACCACTC	CATCAACTTT	ATTATGACGC	AACATCTCCA	120
GATAGTCTTG	CTCTCTATTT	GTACCATTGA	TAGAACATAA	GAGTAATTTG	TTATTTCTCT	180
TATAGACTTC	ATTTTCCACA	TGCATAGCAA	ATTCTGAAAA	GAAGGGATGC	CAGATACTTG	240
GTACAATGAT	TGCAATCGTT	TCTGTTCGAT	TTTTTTTCAT	TCCTCTAGCG	TAGTAATCTG	300
Gaatgtaatt	CAAAGTTTTA	ATCGCTTGTT	CCACTTTTT	CAAAGTTACT	TCTTTAATGC	360
СТТТТТСТТТ	ATTAATTACA	CGTGAAACAG	TTCCAACACT	AACTCCTGCT	TCTAAAGCAA	420
CATCTTTCAT	GGTAATTGAT	TTTCTTTGTT	СТАССАТАТТ	ATCACCTCCT	TTCAATATAT	480
AGTATCATGC	AAATGCTTTT	TAAGCAACTA	TTTCTCAATC	ATTTTTGGCC	AGATCATTTA	540
TCCCATCATG	AATAAAATCA	CTCCAATTAG	CTTTTGAAAA	ТАСТТСААТТ	TTCATGTGTA	600
AACATCTACA	TAAAACAGGA	AAAGCCTTGG	TTTCATGGCT	TTTTTCGTAT	СТТСТАТААА	660
AAAAGCAAGA	GTTTTAGATG	GCTATAAATC	TAGATGTACA	TTTTGCTTAA	ATGATTGAAG	720
GTCTTTTCTT	AACAAAAACA	CCCCCAAAAT	TAGACTTTTT	CTGTCTAACT	TTTGAGGTAC	780
AGTTCAAACG	CGAAATAGCG	TTTTTTTTTTT	ATTTTTGGTT	ACTCATCTAA	TCGAATAAAC	840
ATCATGGCAT	TTAACAAGTA	TATGAGTGAG	ACCGTGTTTA	TATTATTTGA	ATAGATGAGT	900
СТСТТАТТТТ	CAATAGGAGG	ААТААТААА	TTAGAAATAA	TGATATCATA	AGGTGAATCT	960
TCTAAAGATT	CCTTTGATAA	TTCTAATTCA	GTCCAAACTT	CCAGTTCAAA	ATTATTGCTA	1020
CAATAATAAG	AAAGTGTCTC	TGCAACGAAT	TTTGCATGAT	ACTGATCAAA	ATTACTCATA	1080
АСТААААССТ	TTAGTTTAGG	CTGATTTTGT	AGCAAATTAA	TCACCAAATG	TTTGGTATGA	1140
GTGATGAAGG	TATAAGATAG	ATGATTTACC	ATCATTGAAC	TAGAACAAAC	CTCAAGAGTC	1200
TCTAAATAGT	GAGAAAGCTC	TTTTTTATA	TCTGAAACAA	ATTTTGGAAA	AATATTTTGA	1260
AAGTTCCTGA	TTGTATTCCC	TTTTTGATCA	AATAAAATAA	ACTCAGTAAA	CAACTCTTGA	1320
CGATACAGAT	GTGCGGTATT	ATGCAGATGC	CAAATCAGAT	TATCCTTATT	CTCCATTTCA	1380
ATCTGATACT	TGACTGAAAT	CTGATCAATA	AAATCACTCA	ATAGATGGTA	AGATTTTTCA	:440
АСАТААСТАТ	CCTTTTTTAC	GCATTTCATA	AAGAGACTTT	CATCTATGAA	AAACATTTTT	1500
igaaagtaag	ACACAAATAA	TTGGCAAACA	ACTTCTTCAT	CTAAAGAGAT	ATTGTATTCT	1560
GATTCAAAAC	TCTGAGCAAC	ACCTTCTATT	CCTTCTGCCT	GCATTAAAAA	ATCCAAACTT	1620
rggtcgttaa	AAGAATCTTT	ATCTACTTCC	ATAAAATGAC	.CAAACTTTAT	TCTATATAGG	1680
TTCGTAACTA	GGAGCAACTT	TAGCATTCTA	TGCGTTGACA	AATTCATTGG	AAAGCTTGTT	1740
የ ሶር ተሞልሞልልል	ССАВТТСТАВ	СРАТАСРСТВ	ACTCCCTCTC	አ ሞርልልልልክጥ	ጥጥር እ እ አ ጥርርር	1800

CATTCTAGGA	AATAATATTT	TTCTGAAAAA	TATTGTGCAA	AAAAGTAACG	AATGTCTCTC	1860
TCATTTCCAA	TGATTTGAAC	AGGGGTCAGA	CTAACTTCAA	ATTGAAATTG	CCTTTTAATC	1920
ACTTTATTGA	TTTGGCTAAT	AATACGATAG	AGCGAAGATG	AACTGATATA	AAATTCTTTA	1980
САААТАСТСТ	CAGCTTGACA	ACCTTCATTA	AAGAAGATGA	ATTCTAAAAT	CGAAAAATGA	2040
GTTGAATGTT	TAAAGAAATG	ATGGTAAACC	ATTTCAATAT	CACTATCATC	GGTATTAATA	2100
ATGCGTATAC	CATTAGTAGA	AGAATGAAAA	ATCAAGTCAG	GAAAAGCAGA	TTTAACATGG	2160
GATAGATCAT	CTTTGACTGC	ACGTTCTGTA	CAATTTAATA	ACTCTGCTAG	TTCAGAACGA	2220
TGAAACCAAC	GTTTATGTTC	AAATAATAAT	TCTAATAATT	CTAATTGCCT	ATGACTTTTT	2280
TTAGATAATA	AATCTCTCAT	GAATATCTTT	CTCTCTTTAT	AAATTATCGG	ATTAAACCTC	2340
TTGCAATTAT	ACCACAAAGA	ATAGGTATAG	CATGATATAA	CGACTTTTCC	TAAAATCTTT	2400
TATTTCGTAT	AATAACACTA	CGGAGACAAT	ATATAAACAA	TTTTCTTATT	TTACCGTCTA	2460
TTGAGGGCGT	GAATACAGAA	TCAAATTCAA	GTCTAAAGAT	TATATTTTTA	ATTTTAAAAA	2520
PTATATAATA	GCAACAATTA	AAGAATTTGA	TTTTTTAAAA	ТТАТАТААТА	ATAACAATCG	2580
aaataattga	CTTTTCTATA	TTAAAGTTAT	ATAATAGTAA	TAATCAAAGA	AATTGATTTT	2640
PTGATATTAA	AATAAAAAAG	GAGGGTAGGC	AGTGTTGTGA	TCAATTATTG	CTGGAGGTCT	2700
PATTGGTCTC	TTGGCAGGTA	AAATCACTAA	AAAAGTAGTT	CTATGGGAAT	CATCGCAAAT	2760
GTATTCGCTG	GTTTAGTCGG	GGCATATGCA	GGACAATCTC	TTTTAGGTAG	TTGGGGTCCA	2820
GCAATCGCTG	GAATGGCTTT	GCTCCCATCT	ATTGTAGGTG	CAGCGATTGT	GATTACTGTA	2880
GTGTCATTCT	TTACAGGTAG	AAAGTAAACT	TTTCGCCAGT	AAAGTTAGCA	AACTATTTTT	2940
aaatcaatga	CGGGAAAAAT	AGTTTAAATG	TTAAATCGAA	AGGATTGTAT	ATGTCAAAAG	3000
CAAAGAAAAT	ATGTTTCATT	ATTTTCTGTA	TTTTAATCTT	GACAATTTTC	CTTCCTGTTT	3060
rgatagatta	TCATCAAGTT	AGTGATCTAG	GTATTCATCT	ACTTAGCTGG	AGACAGAACT	3120
CCGTAGTTGA	ATTCTATCTT	GCTAGATATG	TCTTTTGGGG	GACAGTGGTT	CTATCAACTT	3180
PAGTTTTATT	ATCCATTTTA	GTTGTGATGT	TTTATCCTAA	ACGTTACTTG	GAAATCCAAC	3240
TTGAAACTAA	AAACGATACA	TTAAAATTAA	AGAATTCGGC	AATCGAAGGT	TTTGTTAGAA	3300
GTTTGGTGAG	TGATCATAGA	TTGATCAAGA	ACCCAACTGT	TCATGTAAAT	TTACGAAAAA	3360
ATAAATGTTT	CGTTCATGTA	GAAGGTAAAA	TTCTTCCTTC	AGACAACATC	GCTGACAGAT	3420
GCCAAATAAT	TCAAAATGAA	ATAACTAATG	GATTGAAGCA	GTTTTTTGGT	ATTGAGCGTC	3480
, , , , , , , , , , , , , , ,	ጥርል እርጥጥር ር እ	CTAAAAAAA	ACCARCCARA	ACCTCA A A A C	**************************************	2540

			1140			
PTAGTCGTGT	GAAGTAAGGA	AGTAAAAAAT	GGAATGGCTT	AAACAATATC	GATATCCAAT	3600
PATCGCTGGT	CTCATAGGCG	TATTTCTGGC	TTGTTTGATT	GTCTCCTTTG	GCTTCTTCAA	3660
AACAATATTT	GTATTGATTT	TAGGAGCACT	GGGAGTTGCA	GCTGGATTAT	АТАТСБААА	3720
AAACTATATA	GATAAATAAA	AAAATAAAA	TTACTAATTT	AATTAAAGGA	GTTTCATATG	3780
PCAAACGAAA	AAAACACAAA	CACTAACGTA	GAAAAGAAAG	ATGCTACTGT	TGTAGCTCAC	3840
GAAATCAAAG	GGGAACTTAC	TTACGAAGAT	AAAGTTATCC	AAAAAATCAT	TGGTCTTTCA	3900
CTAGAAAACG	TTTCAGGTCT	TTTGGGAATC	GATGGTGGTT	TCTTCTCAAA	TCTTAAAGAA	3960
AAAATCGTTA	ACAGCGATGA	CGTAACAAGT	GGTGTTAACG	TAGAAGTTGG	TAAAACACAA	4020
GTTGCAGTTG	ACTTAAACGT	TATTGTTGAG	TACCAAAAA	ATGTTCCAGC	ТТТАТАТТСА	4080
GAAATCAGAG	AAATCGTATC	TTCAGAAGTT	GCTAAAATGA	CTGACTTGGA	AATTGTTGAA	4140
ATCAACGTAA	ACGTTGTCGA	CATCAAAACT	AAAGAACAGC	ATGAAGCAGA	CTCAGTAAGC	4200
CTTCAAGATC	GCGTATCTGA	CGTTGCTGAA	TCAACAGGAG	AATTCACTTC	AGAACAATTC	4260
GAAAAAGCTA	AATCTGGTCT	TGGATCTGGT	TTCTCAACTG	TTCAAGAAAA	AGTTAGCGAA	4320
GTGTAGAAG	CTGTTAAAGG	TGCAGCAAAT	GGTGTAGTAT	CTCACGAAAA	CACTCGTGTA	4380
ACTAAGATA	TATAAATAA	AACAGGAGAA	ATTATCATGT	CAGTAGAAGA	TAAATTAAAA	4440
CAAGCTAAAG	GTTCTATTAA	AGAAGGTGTT	GGGAAAGCCA	TCGGTGATGA	AAAAATGGAA	4500
AAAGAAGGTG	CAGCTGAAAA	AGTTGTTTCT	AAAGTAAAAG	AAGTTGCCGA	AGACGCTAAA	4560
GACGCTGTAG	AAGGTGCTGT	AGAAGGTGTT	AAAAACATGT	TGAGTGGCGA	CGATAAATAA	4620
GTTAAAAGT	TACTTTATCT	TTTTAGTAAT	ATTAGTCAAA	AGAGTCTGAG	TCAAGATGAT	4680
TCTCAGAAAA	CAAAAAGCTA	GAGATTCCCA	ATTGCGGAAC	TCTAGCTTTT	TAATTTTGCC	4740
CTTTCTCTT	ATTATATTTC	AGCAGGTTGT	TGGCCATGAG	TACGAATCCC	ATGTCAATTC	4800
CACTTGACG	CTTACCTCTC	AGATGACATC	TCTTATAACC	CAAACAAACC	TTTATCTGCC	4860
CAAAGACAGA	TTTCATATCA	ATCTTACGTT	TAGCGAAAAT	TTGTCTACCC	TTGGAAGATA	4920
AAGTGCCTG	ATATTCTTTA	GTTTTTAAAC	ACTGGTAACG	TTCATTCATA	TACAGTCTCT	4980
TTGAGGGGC	TGATTCAGGT	TCATAATCGC	AGTCAACATT	GATTTCAAGG	CTGTTTGCTT	5040
CTATCTCCC	CGG					5053

(2) INFORMATION FOR SEQ ID NO: 188:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 6492 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

1141

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 188:

AATTCTCTTT	TTTCCAACAA	AATGTATGAC	CTGCACTTGA	ATACTTCTCA	TTGTTTGTAC	60
ATTCATCTAC	TTTCATATAA	TCTTTTACAA	ААТСАТААТА	TGACATAACA	CACTATCCCT	120
TTTAGACAAT	ATTCCAATTA	GCCTȚATTAA	ттсааааста	TTGTATTAGT	AATTATAACA	180
Gatgtataat	AGAAAAGCAA	TGATAGATAT	TATCAATTAA	GCGAATTTAT	ATCTAAAAGG	240
GATATTAAAG	AAAGGAGATA	TGCTTATGAA	GATTTACAAA	AAACTATTTG	CTTATGTCCA	300
AGATAAGAAA	TATCTTGGGG	TTTTGGCCAT	AATTTTTTCT	GCTATATCTG	CTGCACTTAC	360
agtatatgga	TATTATTTAA	TCTACAAATT	TCTAGATAAG	TTAATAATTA	ATTCAAACTT	420
ATCCGGTGCA	GAGAGTATAG	CATTAAAATC	TGTTATTACA	CTAACAAGTG	GAGCGATATT	480
TTATTTTGTC	TCAGGAATGT	TTTCACATAT	CTTGGGATTC	AGGCTTGAAA	CAAATTTAAG	540
AAAAAGGGaA	TCGATGGTCT	GGAAAAAGCA	AGTTTTAGGT	TCTTTGACTT	AAATCCATCT	600
GGTCAAATAA	GAAAGATTAT	AGATG# CAAT	GCTGCACAAA	CTCATCAGGT	GGTAGCACAC	660
ATGATTCCCG	ATAGTTCTCA	GGCAATAATC	ACACCCGTAC	TTGTACTTGC	ACTTGGCTTT	720
ATAGTAAGTA	TAAGAGTTGG	CATAATTTTG	CTTGCTCTTA	CTATAATTGG	TGGCTTAATT	780
TTAGGGGCAA	TGATGGGCGA	GCAAGAATTT	ATGAAGATAT	ACCAAGAATC	CCTATCTAAA	840
CTAAGTGCTG	AAACTGTTGA	GTACGTGAGA	GGAATGCAAG	TTGTAAAAAT	ATTTAAAGCA	900
aatgtagagt	CTTTTAAAAG	CTTTTATAAG	GCGATAAAAG	ATTACTCAAA	GTATGCTTAT	960
GATTATTCCC	TATCTTGTAA	AAGGCCTTAT	GTTTTGTATC	AATGGTTATT	TTTTGGACTG	1020
ATTGCAATTT	TAATTATTCC	TATAGTTTAT	TTTATGACTA	GCTTAGCTAG	CGCAAAGGTG	1080
ATTTTACTIG	AGCTTATCAT	C√LLT.T.T.T.T.T.T.	TTATCAGGAG	TTCTCTTTGT	TTCATTCATG	1140
AGAATGATGT	GLACTCCATG	TATATTTCTC	AAGGAAATTA	TGCAGTAGAT	ACTTTAGAGG	1200
CGCTTTACGA	AGATATGCAA	AAAGACAAAT	TAGTGCATGG	TAATGTCAAT	AATTTTAAAA .	1260
ACTATAATAT	AGAATTTGAG	AATGTTAGCT	TTGCTTATAA	TGATAAAGCT	GTCATTGAAA	1320
ATTTATCCTT	TAATTTAGAA	GAAGGAAAGT	CCTACGCACT	TGTCGGTTCA	TCTGGATCAG	1380
GCAAATCAAC	AGTAGCAAAA	CTTATATCAG	GTTTTTACAA	TGTTAATAAA	GGAAGCATAA	1440
AGATAGGCGG	GATAGCAATA	AGTGAATATT	CTGACGAAGC	CTTAATTAAA	GCCATTTCCT	1500
TTGTTTTTCA	AGATTCAAAA	TTATTCAAGA	AGAGCATTTA	TGATAATGTA	GCGTTAGCTA	1560
ATAAAGATGC	GACGAAAGAT	GACGTTATGA	GAGCCTTAAA	ATTAGCAGGA	TGCGATTTAA	1620

			1142			
TATTAGACAA	ATTCCCAGAA	AGAGAAAATA	CAATCATAGG	CTCAAAAGGT	GTTTATTTAT	1680
CCGGTGGAGA	AAAACAAAGA	ATTGCAATTG	CTAGAGCAAT	TTTAAAGGAT	TCCAAAATTA	1740
TTATTATGGA	TGAAGCATCA	GCATCTATTG	ACCCAGATAA	CGAGTTTGAA	TTGCAAAAAG	1800
СТТТТАЛАЛА	TCTTATGAAG	GATAAAACAG	TTATCATGAT	TGCACACAGG	CTATCTACAA	1860
TTAAAGACCT	TGATGAAATT	ATTGTCATGG	ATAGTGGAAA	AATTATAGAA	AGAGGGTCTG	1920
ACAAAGAATT	AATGTCAAAA	GATACAAGGT	ATAAGAGCCT	GCAAGAGATG	TTTAACAGTG	1980
CGAATGAATG	GAGGGTTTCA	AATGAAAGAG	ТТТТАТАААА	AAAGATTTGC	TCTTACAGAT	2040
GGAGGAGCAA	GAAATTTAAG	TAAAGCAACA	CTGGCTTCAT	TTTTCGTTTA	TTGTATAAAC	2100
ATGCTTCCTG	CCATATTACT	TATGATTTT	GCTCAGGAAG	TTTTGGAAAA	TATGGGCAAA	2160
AGCAATGGCT	TTTATATAGT	ATTCTCAGTT	TTGATTTTGA	TAGCAATGTA	TATTTTGCTT	2220
TCTATCGAAT	ACGATAAATT	ATATAACACA	ACCTATCAAG	AAAGTGCAGA	TTTAAGAATA	2280
AGGACAGCGG	AGAATTTATC	AAAATTACCT	CTATCTTACT	TTTCTAAACA	TGACATTTCC	2340
GACATTTCAC	AAACAATCAT	GGCTGATATT	GAAGGCATAG	AGCATGCAAT	GAGCCACTCA	2400
ATACCAAAGG	TGGGCGGCAT	GGTACTGTTT	TTCCCATTAA	TATCTGTAAT	GATGCTAGCG	2460
GGCAATGTCA	AGATGGGTTT	AGCTGTAATT	ATTCCATCTA	TTTTAAGCTT	TATATTTATA	2520
CCTTTATCTA	AAAAATATCA	GGTTAATGGA	CAGAATAGAT	ATTATGATGT	CTTAAGAAAA	2580
AACTCAGAAA	GCTTTCAAGA	AAATATCGAA	ATGCAAATGG	AGATTAAAGC	ATATAATTTA	2640
TCGAAGGATA	TTAAAGATGA	СТТАТАТАА	AAAATGGAAG	ATAGTGAGAA	AGTACACTTA	2700
AAGGCGGAAG	TAACTACAAT	TTTAACTTTG	TCTATATCTT	CAATATTTAG	CTTTATATCT	2760
CTTGCTGTTG	TGATATTTGT	CGGCGTAAAT	СТААТТАТТА	ATAAAGAGAT	AAATTCTCTC	2820
TACCTTATAG	GATATTTACT	AGCTGCTATG	AAGATAACAG	ACTCTTTAGA	TGCATCTAAA	2880
GAGGGCTTGA	TGGAAATATT	TTATTTATCG	CCCAAAATAG	AAAGATTAAA	AGAAATTCAA	2940
AATCAAGATT	TACAAGAAGG	CGATGACTAT	AGCTTAAAAA	AATTTGATAT	TGATCTAAAA	3000
GATGTTGAGT	TTGCCTACAA	TAAAGACGCA	AAAGTTTTAA	ATGGTGTAAG	TTTTAAAGCT	3060
AAGCAGGGAG	AGGTCACTGC	TTTGGTAGGT	GCAAGTGGCT	GCGGTAAAAC	AACTATCTTG	3120
AAACTTATAT	CAAGACTTTA	TGATTATGAC	AAGGGACAAA	TCTTAATCGA	TGGCAAAGAT	3180
ATAAAGGAAA	TATCAACAGA	ATCCCTTTTT	GATAAGGTGT	CTATTGTTTT	CCAAGATGTG	3240
GTTCTCTTTA	ATCAAAGCGT	TATGGAAAAT	ATTAGAATCG	GTAAGCAAGA	TGCAAGTGAC	3300
GAAGAGGTTA	AAAGAGCAGC	AAAACTTGCA	AATTGCACAG	ATTTTATAGA	AAAAATGGAT	3360
AAAGGTTTCG	ATACAGTTAT	TGGTGAAAAC	GGAGCTGAGC	TATCAGGAGG	AGAAAGACAA	3420

AGATTATCAA	TAGCCAGAGC	CTTCTTAAAA	GATGCGCCGA	TATTGATCTT	AGATGAGATA	3480
ACAGCAAGCC	TTGATGTTAA	CAACGAGAAA	AAGATTCAAG	AGTCTTTAAA	TAATTTAGTT	3540
AAAGATAAAA	CTGTTGTAAT	CATTTCACAT	AGAATGAAAT	CCATAGAAAA	TGCAGACAAG	3600
ATAGTAGTTC	TTCAAAACGG	AAGAGTAGAA	AGCGAAGGTA	AGCATGAAGA	GCTTTTACAA	3660
AAATCAAAAA	ТТТАСАЛАЛА	TTTAATAGAA	AAGACAAAAA	TGGCAGAAGA	ATTTATTTAT	3720
TAGGAGGACT	ACAATGGATA	ATAAAAAATT	AAAAGTAAAA	GATTTAGTAA	GCATCGGTGT	3780
TTTTGGCGTA	ATTTATTTTG	CCTTCATGTT	TGGAGTTGGT	ATGATGGGCT	TGATTCCAAT	3840
ATTGTTCTTA	ATATACCCGA	CAGTATTAGC	CATAGTTGCA	GGAACTGTTG	TTATGTTATT	3900
TATGGCTAAG	GTTCAAAAGC	CATGGGCACT	ATTTATATTT	GGTATGATAT	CACCACTTGT	3960
GATGTTTGCA	GCTGGTCATA	CCTACGTAGT	TGTGGTTTTA	TCACTTATAG	TAATGATAAT	4020
AGCAGAATTA	ATTAGAAAGA	TTGGTAATTA	TAATTCATTT	AAATACAATA	TGCTTTCTTA	4080
TGCAATCTTC	AGCACATgGA	TATGTAGCTC	TTTAATGCAA	ATGCTTTTAG	CAAAAGAAAA	4140
ATATATGGAG	TGGTCTTTGA	TGACTATGGG	AAAAGATTAT	GTTGATGTAT	TAGAAAAGTT	4200
AATAACTTAT	CCTCACATGG	CTTTAGTAGC	CTTAGGTGCT	TTCTTAGGAG	GAATTCTTGG	4260
AGCATATATA	GGCAAGGCTC	TATTGAAAAA	ACACTTTTCA	AATGGATTAT	ATTGTGTGGG	4320
ATACTTTACT	CCTTGCCTAA	TTTTATGGTG	CTATCTGAAT	TAAACCCTAT	AGTTAAGATG	4380
TTTTTGAGTA	TACCTATTGT	TATTAGAATG	TTTATTTTAC	CATTTATGGC	AGCAAGCTTT	4440
ATGATAAAGA	CCTCGGATGT	AGGCGCAATA	ATTTCATCGA	TGGATAAGCT	TAAGATTTCA	4500
AAGAATGTAT	CCATACCTAT	TGCGGTTATG	TTTAGATTCT	TCCCATCTTT	TAAGGAGGAG	4560
AAGAAAAACA	TCAAAATGGC	TATGAGAGTA	AGAGGGATAA	ATTTTAAAAA	CCCAGTCAAA	4620
TATCTTGAAT	ATGTTTCTGT	GCCACTACTC	ATTATATCAT	CTAATATATC	AGATGACATT	4680
GCAAAAGCGG	CAGAAACAAA	GGCAATAGAA	AATCCAATTG	CCAAGACCAG	ATACATTCGC	4740
GTAAAGATAC	AGCTAATTGA	TTTTGTTTAT	GTTTTAGCGG	TTGCTGGACT	TATTGTGGGA	4800
GGCTTAATAT	GGTTGAAATA	AAAAATTTAA	GTCTTGATTA	TGGTGAAGAG	CATATATTAG	4860
ATGATATATC	ACTATCCATA	GCCGAGGGAG	AGTGCGTGCT	ATTTACAGGA	AAAAGTGGAA	4920
ATGGTAAGTC	ATCTTTAATA	AATTCAATCA	ATGGACTAGC	TGTAAGGTAT	GATAACGCAA	4980
AGACAAAGGG	CGAAATAATT	ATTGATGGTA	AGAATATAAA	aaatttggaa	CTTTATCAAA	5040
TCTCAATGCT	TGTTTCAACT	GTTTTTCAAA	ATCCTAAGAC	TTTTTTTATA	AATGTCAATA	5100
CGACATTAGA	ATTATTATTT	TATTTGGAAA	ATATCGGTCT	TGCAAGAGAA	GAGATGGACA	5160

GGCGTTTGAA	GGATATACTT	GAGATATTCC	1144 CGATAAAAA	TCTTTTGAAC	AGAAATATAT	5220
ттаатстатс	CGGCGGTGAA	AAACAAATTC	TTTGCATTGC	AGCTTCTTAT	ATAGCAGGTA	5280
CAAAGATTAT	AGTTATGGAT	GAGCCTTCAT	CGAATTTAGA	TATTAAAAGC	ATAAGTGTTT	5340
TGGCAAAGAT	GCTAAAGATA	TTAAAAGAGA	AAGGCATAAG	CATAATTGTT	GCAGAGCATA	5400
GAATTTATTA	TTTGATGGAC	ATAGTTGACC	GTGTATTTTT	AATAGATAAA	GGAAAGCTTA	5460
АААААСТТА	TACTAGAAGT	GAATTTTTAA	AGCTAGATAA	AAATGAATTA	AATGCTTTAA	5520
GTTTAAGAGA	TAAAGAATTA	AGTAAATTAA	AAGTTCCTTA	TTTAAAAGAA	GGTGGAGAGT	5580
ATCAGATAAA	AAATCTTAGT	TACAAATTTA	CTGATGATGA	GTGTTTAAGC	TTAAAAGATA	5640
TTTCGTTCAA	GCTTGGGAAA	ATTTATGGCA	TAATAGGATC	CAACGGACGA	GGAAAATCAA	5700
CGCTTTTAAG	ATGTTTAATA	GGTCTTGAGA	АААААТСААА	AGAAGAAATT	TATTTTAAGG	5760
GAGAGAAGCT	АТСТААААА	GAAAGACTCA	AAAACTCTTC	ACTTGTTATG	CAAGATGTAA	5820
ATCATCAATT	ATTCACAGAT	GAAGTATTCA	ACGAGCTTAG	ATTAGGAGTA	AAGAATTTTG	5880
ATGAAGAAAA	GGCGAAAATC	ATTTTAAACC	CCAATTATTC	ACCCCAAATC	TAAAAACCAT	5940
CCAGAATCCT	TGCCTTAGCT	TAGATCCTGG	ATGGTTTCTT	TTTTCACCCA	ATGGGTGTTT	6000
TTTACTAGAC	AAAAAAGAGT	TTCCCCTTTA	TGGTATAAGT	GTAGAAAAA	ACACAAAAAG	6060
AAAGGAAACT	CACATGAACA	GTTTACCAAA	TCATCACTTC	CAAAACAAGT	CTTTTTACCA	6120
ACTATCTTTC	GATGGAGGTC	ATTTAACCCA	GTATGGTGGT	CTTATCTTTT	TTCAGGAACT	6180
TTTTTCCCAG	TTGAAACTAA	AAGAGCGGAT	TTCTAAGTAT	TTAGTAACGA	ATGACCAACG	6240
CCGCTACTGT	CGTTATTCGG	ATTCAGATAT	CCTTGTCCAG	TTCCTCTTTC	AACTGTTAAC	6300
AGGTTATGGA	ACGGACTATG	CTTGTAAAGA	ATTGTCAGCT	GATGCCTACT	TTCCAAAATT	6360
GTTGGAAGGA	GGGCAGCTTG	TTCACAGCCA	ACCTTATCCC	GTTTTCTTTC	CAGAACTGAC	6420
GAGGAAACAG	TCCATAGTTT	GCGATGCCTC	AACCTTGAAT	TGGTCGAATT	CTTTTTACAT	6480
GTTCACCAGC	TG					6492

(2) INFORMATION FOR SEQ ID NO: 189:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 7174 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 189:

AACTGAAGGT AAAGGCTTCG ACGCAGAACG TGACGCTGCC CAAGCTGCCC TTGATGACCT

TAAGAAAGCT	CAAGAAGACA	ACAACTTGGA	CGACATGAAA	ACAAAACTTG	AAGCATTGAA	120
CGAAAAAGCT	CAAGGACTTG	CTGTTAAACT	CTACGAACAA	GCCGCAGCAG	CGCAACAAGC	180
TCAAGAAGGA	GCAGAAGGCG	CACAAGCAAC	AGGGAACGCA	GGCGATGACG	TCGTAGACGG	240
AGAGTTTACG	GAAAAGTAAG	ATGAGTGTAT	TGGATGAAGA	GTATCTAAAA	AATACACGAA	300
AAGTTTATAA	TGATTTTTGT	AATCAAGCTG	ATAACTATAG	AACATCAAAA	GATTTTATTG	360
ATAATATTCC	AATAGAATAT	TTAGCTAGAT	ATAGAGAATŤ	ATATTAGCTG	AACATGATAG	420
TTGTATCAAA	AATGATGAAG	CGGTAAGGAA	TTTTGTTACC	TCAGTATTGT	TGTCTGCATT	480
TGTATCGGCG	ATGGTACCAG	CTATGATATC	ATTAGAAATA	САААСАТАТА	AATTTGTAAT	540
ACCGTTCATA	ATTGGTATGA	TTTGGACAGT	AGTTGTATTT	CTTÄTGATCA	ATTGGAATTA	600
TATAGGCAAA	TACTAAGAAG	AGACAAAAAT	ATATAAATAT	TTCTGTACTT	ATAGGATATT	660
TAAAATCAAA	ATAAAGTTAA	TTTACTTATT	TGCAGAGGTT	GCAACCCAGC	CTCTGTTTTT	720
CGATAAAAG	GGACGGAATC	TCATTTGTTT	GGGTTTTGTC	TCATCAATAG	AAAGGAACAA	780
AGAGTGTTCG	TAACTGAACA	CGGGTTTCAG	AATTTCTTAC	TAAATATAAA	AGAAAGGAAT	840
TGAACCCGAC	CTAAATGGTG	GTTCGATTCA	GAACATCAAT	AGAAAGGAAT	AAGGGTGTTC	900
GTAACTGAAC	ACGGGCTATG	GACTGTGCCA	AAAAGATAGT	TTTTTCTAGG	ACGTAAGCGT	960
CCGTCGTCAA	AACTCCTAGA	TGGCTGTGTC	CGTTTGACGC	CCTTTGTATC	TTGAATTATG	1020
AACAATACTG	AATTTTATGA	TCGTCTGGGG	GTATCCAAAA	ACGCTTCGGC	AGACGAAATC	1080
AAAAAGGCTT	ATCGTAAGCT	TTCCAAAAAA	TATCACCCAG	ATATCAACAA	GGAGCCTGGT	1140
GCTGAGGACA	AGTACAAGGA	AGTTCAAGAA	GCCTATGAGA	CTTTGAGTGA	CGACCAAAAA	1200
CGTGCTGCCT	ATGACCAGTA	TGGTGCTGCA	GGCGCCAATG	GTGGTTTTGG	TGGAGCTGGT	1260
GGTTTCGGCG	GTTTCAATGG	GGCAGGTGGC	TTCGGTGGTT	TTGAGGATAT	TTTCTCAAGT	1320
TTCTTCGGCG	GAGGCGGTTC	TTCGCGCAAT	CCAAACGCTC	CTCGCCAAGG	AGATGATCTC	1380
CAGTATCGTG	TCAATTTGAC	CTTTGAAGAA	GCTATCTTCG	GAACTGAGAA	GGAAGTTAAG	1440
TATCATCGTG	AAGCTGGCTG	TCGTACATGT	AATGGATCTG	GTGCTAAGCC	AGGGACAAGT	1500
CCAGTCACTT	GTGGACGCTG	TCATGGCGCT	GGTGTCATTA	ACGTCGATAC	GCAGACTCCT	1560
CTTGGTATGA	TGCGTCGCCA	AGTAACCTGT	GATGTCTGTC	ACGGTCGAGG	AAAAGAAATC	1620
AAATATCCAT	GTACAACCTG	TCATGGAACA	GGTCATGAGA	AACAAGCTCA	TAGCGTACAT	1680
GTGAAAATCC	CTGCTGGTGT	GGAAACAGGT	CAACAAATTC	GCCTCGCTGG	TCAAGGTGAA	1740
GCAGGCTTTA	ACGGTGGACC	TTATGGTGAC	TTGTATGTAG	TAGTTTCTGT	GGAAGCTAGC	1800

GACAAGTTTG	AACGTGAAGG	AACGACTATC	TTCTACAATC	TCAACCTCAA	CTTTGTCCAA	1860
GCGGCTCTTG	GTGATACAGT	AGATATTCCA	ACTGTTCACG	GTGATGTTGA	ATTGGTTATT	1920
CCAGAGGGAA	CTCAGACTGG	TAAGAAGTTC	CGCCTACGTA	GTAAGGGGC	ACCGAGCCTT	1980
CGTGGCGGTG	CAGTTGGTGA	CCAATACGTT	ACTGTTAATG	TCGTAACACC	GACAGGCTTG	2040
AACGACCGCC	AAAAAGTAGC	CTTGAAAGAA	TTCGCGGCTG	CTGGTGACTT	GAAAGTAAAT	2100
CCAAAGAAAA	AAGGCTTCTT	TGACCATATT	AAAGATGCCT	TTGATGGAGA	ATAATACTCT	2160
TCGAAAATCT	CTTCAAACCA	CGTCAGCGTT	GCCTTGCCGT	ATATATGTGA	CTGACTTCGT	2220
CAGTCGTATC	TACAACCTCA	AAACAGTGTT	TTGAGCAGCC	CGTGGCTAGT	TTCCTAGTTT	2280
GCTTTTTACT	TTATAGATTT	TTTAAGACTT	TCCTAAGTAA	TGACGGACGG	TAGTGACCTC	2340
CTTCGAAGTT	CCATACCTAA	ACTTTGAACC	TAAGTTTTAA	AGTTTCCGGA	CAGCTGAAAC	2400
CAAGCTGTTT	CAGGTGTTTT	CATTACGGCA	GAAAGTCTTC	GATTTAGTTG	TGAAATGGTG	2460
AATGATACTC	TTCAAAAATT	TCTTCAAACC	ACGTCAGCGT	CGGCTTGTCA	TGGGTATGGT	2520
TACTGACTTC	GTCAGTTCTA	TCCACAACCT	CAAAACAGTG	TTTGAGCTGA	CTTCGTCAGT	2580
TCTATCCACA	ACCTTAAAAC	GGTGTTTTGA	GCAGTCTGTG	CCTAGCTTTC	TAGTTTGCTT	2640
TTTGATTTTT	ATTGAGTATG	AATTACCTAA	ATTATGATGC	ATAGTTGATG	GGATATATAT	2700
AATAGATTGA	AATAGAATAT	GAACAAATTG	ATAAGAGGAT	TTTAAAGTAA	TCTCTAACAA	2760
TGCTTTAGAA	ACTATGGTGT	GCTATTCTAA	ATTCAATTCA	CTATAACTTG	TTTACGTTTT	2820
AAAAAAGAGC	CGTCGGGCTC	TTTTTACTTA	TCTTCAGTTC	CCTGCATTTC	TTTTATCACA	2880
GCTAGTCTAG	TCTGGATATC	CTTTTCCAAG	ACCTTAAACT	TGTAAGTCAA	GTCTTCTTGG	2940
TATTCCTTGA	TAAGTTCTTT	TTGCTGGTTA	ATGATTTGCA	GGCTGTTTTG	GATAATATCC	3000
ACATCGTCCT	TGATAGCTTG	AACGCGGTCA	GTGGTATTCA	AGACTTCATC	TGTGATGGTT	3060
TGGCGATTTT	TTGTAACCAG	ATAACTTCCG	GCTGCAGCTC	CTGCAAATAG	CAGTAGGTTG	3120
GATAATTTCA	TAGCAACTCC	TTAAGCGTTT	TTGATGGTTT	CAGCGACTTG	AGCAAGTTTG	3180
TCAAAGTCTG	GTTCGTGGGC	GATAAAATCA	ATCTTGAGGT	CATCGTCAGC	ACTGTAGCGA	3240
GGCACAAGGT	GAACGTGAGT	ATGAAAAACT	GTTTGACCAG	CGACTTCTTC	ACAGTTGGAA	3300
ATGATATTCA	TACCAGCAGC	CTTAGTGACT	TTCATGACTT	TTTGAGCTAC	TTTTGGTACT	3360
TGGGCAAAGA	GTTGGcTGGC	GCTCGTAGCA	TCCATCTCCA	AAAGATTGCG	ATAGTGTTCT	3420
TTTGGCACGA	CCAAGGTGTG	TCCTAGTGTT	ACTTGAGAGA	TATCAAGAAA	GGCAAGGACC	3480
TGCTCATCTT	CATATACTTT	TGAAGCAGGA	ATTTCCCCTG	CGATGATTTT	ACAAAAATG	3540
СААТСТСАСА	ТАВАВТСТВС	СТСТАСТСТА	CTICAATTTTG	Απαπααπαπα	CCTACATTAT	3600

ACCAGATTTG	GAGAAAATAT	GTTAGAAATT	AAAAACCTGA	CAGGTGGCTA	TGTTCATGTT	3660
CCTGTTTTGA	AAGATGTGTC	CTTTACTGTT	GAAAGTGGGC	AGTTGGTCGG	TTTGATTGGT	3720
CTCAATGGTG	CTGGGAAATC	AACGACGATC	AATGAGATTA	TCGGTCTGTT	GGCACCTTAT	3780
AGTGGCTCCA	TCAATATCAA	TGGCCTGACT	CTGCAAGGAG	ATGCGACTAG	CTACCGCAAG	3840
CAGATTGGCT	ACATTCCTGA	GACGCCTAGT	CTGTATGAGG	AATTGACCCT	CAGAGAGCAT	3900
ATCGAAACGG	TTGCTATGGC	TTACGGTATT	GAGCAAAAAG	TGGCTTTCGA	ACGAGTAGAG	3960
CCCTTGTTAA	AAATGTTCCG	TTTGGAACAG	AAATTAGACT	GGTTCCCTGT	TCATTTTTCA	4020
AAAGGGATGA	AGCAGAAGGT	CATGATTATC	TGTGCTTTTG	TGGTGGATCC	AAGTCTTTTC	4080
ATCGTGGATG	AGCCTTTCCT	TGGTCTTGAT	CCGCTGGCTA	TTTCTGATTT	GATTCAGCTT	4140
TTGGAAGTGG	AGAAGCAAAA	GGGCAAGTCT	ATTCTCATGA	GTACCCACGT	GCTGGATTCG	4200
GCGGAGAAGA	TGTGTGATGC	CTTTGTCATT	CTTCACAAGG	GAGAGGTGCG	TTCCAAAGGC	4260
AATCTCCTGC	AACTACGTGA	AGCCTTTGAT	ATGCCTGAGG	CTAGTTTGAA	TGATATTTAC	4320
TTGGCTCTGA	CCAAAGAGGA	GGATCTATGA	AAGACTTGTT	TTTAAAGAGA	AAGCAGGCCT	4380
TTCGTAAGGA	GTGTCTTGGT	TATCTGCGCT	ATGTGCTCAA	TGACCACTTT	GTCTTGTTCC	4440
TGCTTGTCCT	GTTGGGCTTT	CTAGCCTACC	AGTACAGTCA	ACTCTTAÇAA	CATTTTCCTG	4500
AAAATCATTG	GCCTATCCTT	TTGTTTGTAG	GAATTACGTC	TGTTTTACTT	TTACTTTGGG	4560
GAGGAACTGC	CACCTATATG	GAGGCTCCAG	ACAAGCTCTT	TCTCTTAGTT	GGAGAAGAGG	4620
AAATTAAGCT	CCATCTCAAG	CGTCAAACTG	GCATTTCCCT	AGTCTTTTGG	CTCTTTGTAC	4680
AGACCCTTTT	CTTGCTGTTA	TTTGCGCCTT	TATTTTTAGC	AATGGGTTAT	GGCTTGCCAG	4740
TTTTTCTGCT	CTATGTGCTT	TTATTGGGGG	TAGGAAAATA	TTTCCACTTT	TGTCAAAAGG	4800
CCAGCAAATT	TTTCACTGAA	ACTGGACTGG	ACTGGGACTA	TGTTATTTCT	CAAGAAAGCA	4860
AGCGTAAGCA	AGTCTTGCTT	CGTTTCTTTG	CCCTCTTTAC	GCAGGTCAAG	GGAATTTCAA	4920
ACAGCGTTAA	GCGTCGTGCC	TATCTGGACT	TTATTTTAAA	GGCTGTTCAG	AAGGTGCCTG	4980
GGAAGATTTG	GCAAAATCTC	TATCTGCGTT	CTTATCTGCG	AAATGGCGAC	CTCTTTGCTC	5040
TCAGTCTTCG	TCTTCTCTTG	CTTTCCTTGC	TGGCGCAGGT	TTTTATCGAG	CAAGCTTGGA	5100
TTGCGACAGC	AGTGGTAGTT	CTCTTTAACT	ACCTCTTGCT	CTTCCAGTTG	CTGGCCCTCT	5160
ATCATGCCTT	TGACTACCAG	TATTTGACCC	AACTCTTTCC	GCTGGACAAG	GGGCAAAAGG	5220
AAAAAGGCTT	ACAGGAGGTA	GTTCGAGGAT	TGACCAGTTT	TGTTTTACTT	GTGGAATTAG	5280
TTGTTGGGTT	GATTACCTTC	CAAGAAAAAC	TAGCCCTTCT	AGCCTTACTA	GGAGCTGGTT	5340

			1140			
TGGTTTTACT	AGTCTTGTAT	TTGCCTTATC	AGGTAAAACG	TCAGATGCAG	GACTAACATT	5400
GCTGATACGA	CACTAAAAA	GAAGTTGAGT	TCAGTCTGTC	TCAACTTCTT	TTTTGTTACT	5460
ACAGGATAAT	GGTTGGTCCG	TAGAGACTTA	TACTCTTCGA	AAATCTCTTC	AAACCACGTC	5520
AGCGTCGTCT	TACCGTACTC	AAGTACAGCT	TGCGGCTAGC	TTCCTAGTTT	GCTCTTTGAT	5580
TTTCATTGAG	TATTAACTTG	GTCTTGACTT	GGTCAAAGTG	GAAGCGGTCA	TAGGCCCGCC	5640
AAGCGGCGCG	AGTTGGAGCA	TCTGGATCAA	GAGCGCTGAG	TCCCATGAGA	AGACTGGAAG	5700
TCTGGTAAAA	TTTTTCTAGT	TCAATCAAGA	ATCGATTATC	CACTGTTTCA	GCCTTGGCTA	5760
GAAAACCAAG	AATAGAGTTT	AATTGCTCCT	GAAAGCGGAC	GTCGTCAGCG	CTTGCCTGTT	5820
TGCATGCTTG	GTAGGCTTTG	TTTAAGTCAG	TAATCAAAGT	ATGAGCTCTT	TTGATGGGGT	5880
CTGTATCTGT	CATGGGAATG	CCTCCTTTAA	TCTGGGTGCC	AGTCTTACTT	CTGGCAACTG	5940
TGTTTTGATA	CTGTTAGTTT	ATCACTTTTA	ATTCTTTTT	TTTATTCAAA	TCTTTAATTG	6000
TCATTGAAAT	GTCTTGAATT	GCGCTGAGTG	AATTTTATGA	TAAAATAGTT	GTAAGCTCAT	6060
CATGATGTTG	TAGAAAATAA	TCCTTTTAGG	AGTTTTCAAA	GACTGTTTAG	GATTGGGTGT	6120
GCTTGGGCTA	GACCTTTTCT	GTTATTCTTT	TCTTAGGAGG	AGAATCCAAT	GAAATATATG	6180
ATTATTCAGA	CGCAGAAAAC	AGTCTATAAA	GTAAACATCG	ACGATATCTA	CTATATCCAA	6240
ACACATCCAA	CTAAAGCCCA	TACCGTACAG	ATTGTTACAG	AAGAAGCTAG	TTTTAATATG	6300
CTTCAAAATT	TAAGTAATCT	TGAGAACCAA	TGTGGGGAAA	CCTTGATGAG	ATGTCATCGA	6360
AATTGTTTGG	TTAATCTTGA	ТАААТТАААА	TCGATTGATT	TTCAAGAAAG	AATCCTTTTT	6420
CTCGGAGAAG	AAGGTCAATA	CGCTGTCAAG	TATGCCAGAC	GTCGCTATAG	AGAAATTCGT	6480
CAAAAATGGT	TGAAAGAGGG	AGAGTAAGAA	GATGAGAATA	TTTGTTTTAG	AGGATGATTT	6540
TTCCCAACAG	ACTAGAATTG	AAACGACGAT	TGAGAAACTT	TTGAAAGCAC	ATCATATCAT	6600
TCCTAGCTCT	TTTGAGGTAT	TTGGCAAGCC	GGACCAACTG	CTGGCTGAAG	TGCATGAGAA	6660
GGGGCCCAT	CAGCTATTCT	TTTTGGATAT	TGAGATTCGA	AATGAAGAGA	TGAAGGGACT	6720
GGAAGTGGCT	AGAAAGATTC	GGGATCGGGA	TCCTTATGCC	CTGATTGTCT	TTGTGACGAC	6780
TCACTCGGAG	TTTATGCCCC	TGTCTTTTCG	CTACCAAGTG	TCTGCTTTGG	ACTACATTGA	6840
TAAGGCCTTG	TCAGCAGAGG	AGTTTGAATC	TCGGATCGAG	ACAGCCCTCC	TCTATGCCAA	6900
TAGTCAAGAT	AGTAAAAGTC	TGGCGGAAGA	TTGCTTTTAC	тттааатсаа	AATTTGCCCA	6960
ATTTCAGTAT	CCTTTTAAAG	AGGTTTACTA	TCTCGAAACG	TCGCCCAGAG	CCCATCGTGT	7020
ТАТТСТСТАТ	ACCAAGACAG	ACAGGCTGGA	ATTTACAGCG	AGTTTAGAGG	AGGTTTTCAA	7080
GCAGGAGCCC	CGTCTCTTGC	AGTGCCACCG	СТСТТТТСТС	ATCAATCCTG	CAAATGTGGT	7140

1149

GCATTTGGAT AAGAAAGAAA AACTGCTTTT CTTT

7174

(2) INFORMATION FOR SEQ ID NO: 190:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 3207 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 190:

CCACCAGGGA	AAATCATTGA	ACTTGGTAGT	CACCAAGAGT	TAATGCAGGC	GCAAAGTTTC	60
TACCATCATC	ТАТТСААТАА	ATAAGGAGAA	TGTCATGAAT	CCTAATCTTT	TTAGAAGCGT	120
CGAGTTTTAT	CAGAGACGTT	ACCATAACTA	TGCGACAGTG	TTAATTATAC	CTCTTTCATT	180
ACTATTTACT	TTCATCTTGA	TTTTCTCCCT	TGTTGCCACA	AAAGAAATTA	CTGTTACTTC	240
CCAAGGAGAA	ATCGCCCCTA	CAGTGTCATT	GCCTCCATTC	AGTCAACCAG	TGATAATCCT	300
ATCCTAGCTA	ATCATTTAGT	GGCAAATCAA	GTAGTTGAAA	AAGGGGACTT	ACTCATCAAA	360
TACTCTGAAA	CAATGGAAGA	AAGTCAGAAA	ACTGCCTTAG	CAACTCAATT	ACAAAGACTT	420
GAGAAGCAAA	AAGAAGGACT	TGGAATTTTG	AAACAAAGCT	TAGAAAAAGC	GACTGATCTT	480
TTTTCTGGCG	AGGATGAATT	TGGCTACCAT	AATACCTTTA	TGAATTTTAC	TAAACAATCC	540
CATGATATTG	AACTGGGTAT	CACAAAGACT	AACACCGAAG	TTTCAAATCA	AGCTAATCTT	600
TCCAATAGCA	GTTCATCAGC	TATTGAACAA	GAAATTACAA	AAGTTCAACA	ACAAATTGGA	660
GAATATCAAG	AGTTGAGAGA	TGCTATCATA	AATAACAGAG	CACGCTTACC	AACTGGCAAT	720
CCGCACCAGT	CAATTTTGAA	TCGTTATCTT	GTAGCCTCAC	AAGGACAAAC	ACAAGGAACT	780
GCAGAGGAGC	CATTTTTATC	TCAAATTAAT	CAAAGTATTG	CAGGTCTTGA	ATCATCTATC	840
GCAAGCCTCA	AAATTCAGCA	AGCTGGTATC	GGAAGTGTAG	CAACTTATGA	TAACAGTTTA	900
GCAACCAAAA	TTGAAGTACT	CCGCACTCAG	TTTTTACAGA	CAGCCTCACA	GCAACAACTA	960
ACTGTGGAGA	ATCAATTAAC	AGAATTAAAA	GTACAACTAG	ATCAAGCCAC	ACAGCGTTTG	1020
GAAAACAATA	CCTTAACCTC	CCCAAGTAAA	GGTATCGTTC	ATCTGAACAG	CGAATTTGAA	1080
GGTAAAAATA	GAATTCCAAC	TGGTACAGAA	ATTGCTCAAA	TATTCCCTGT	CATCACAGAT	1140
ACAAGAGAAG	TACTAATCAC	TTACTACGTA	TCTTCTGACT	ATCTACCTCT	ACTAGATAAA	1200
GGACAAACTG	TAAGATTAAA	ACTGGAGAAG	ATTGGAAATC	ACGGCACCAC	CATCATCGGC	1260
CAACTTCAGA	CAATTGATCA	AACTCCTACC	AGAACAGAGC	AAGGAAATCT	СТТТАААТТА	1320

			1150			
ACCGCTCTTG	СААААСТАТС	TAACGAGGAT	AGTAAACTCA	TCCAATATGG	CTTACAAGGT	1380
CGCGTCACTA	GTGTAACTAC	AAAGAAAACA	TATTTTGATT	ATTTCAAAGA	TAAAATTTTA	1440
ACACATTCTG	ATTAATTTTC	AGATAACACT	CTATAACTAT	ТТАТТАТСТТ	ATCAAAAAGG	1500
AGAATCATAA	CATGGATAAG	AAACAAAACC	TAACTTCATT	TCAAGAACTA	ACAACTACCG	1560
AACTCAATCA	AATTACAGGT	GGAGGATTGT	GGGAAGATTT	ATTATATAAC	ATTAATAGAT	1620
ATGCTCATTA	CATCACATAA	GAACTTCATC	ATCCAATACA	ACTATAAAAA	AATAAGACCG	1680
AGAAACAAGT	ACTCTCGGTC	TTATTTTCA	TCATTCTGTA	TGTATCACAG	TAAGTACCTG	1740
ACGAAAGACT	TGATTTTGAC	AGGTGGTATT	TAGACTGGTA	TTAGGATGGC	TTTCCACAAT	1800
CTTCATGACG	GTATAGAGAC	CAACTCCTCT	CTCCTCCCCT	TTAGAACTGG	CTCCAAAGGA	1860
GAAGATTTCA	GAAATATCGA	TGCCCTCTTC	TTTGATGGAG	TTTTCGATGA	TAAAGGTCTC	1920
CTGTGCTCCA	TTTTTTAAAA	AGGCGATTGA	AACATGAGGT	TGACTAGCTT	CCACACTGGC	1980
TTCAATAGCA	TTGTCACAAA	GGATAGACAC	AATGGTTAGA	AAATCAAGTA	GACTCATCCC	2040
CTCGACCTGA	ATCTCCTCAG	GAACTTCGAC	ATTAAAGACA	ATGTTCTTAT	CTCTGGCTTT	2100
ТАААААТТТС	CCTGCTAGAA	GACTTTTGAG	GGCTTTATCA	CGAATATTTA	CCAATCTGCC	2160
CAGGTCATAT	TTATTGTTCT	GCAATTTCTG	ACTGGAATCC	TTTAAGACGG	AGCCATAGAC	2220
CTCTTTTATC	TGCTCCATAT	CCTCCTCTTC	AATGCCCAGA	CGTAAGCTAG	TCAAGAGGTT	2280
GGTATAATCA	TGACGAAAGC	TCCGTACTTC	CTTGTAAAGC	TCCTCTATAT	GCCGACTATA	2340
GCGTTCCATA	TCTCTATAGC	GCAGGGCCTG	CTCTTGTTCC	AATCTCTCAT	AGAGTTTTTC	2400
CTTCAAATAG	GTATCCAATT	TCTTGATAAC	CCCCATAAAA	AAGAGTAGGT	AAAAGACTAG	2460
GATGAGATGG	CGAACAGTCT	TTGATTGAAT	ACTTTGTTCA	TATTCAAAAA	AAGACAGACT	2520
TTCCATGACT	AGATAGTAGC	CACCCATTAT	CCAGTTAATC	TGAGTCAGGG	ACTTTTGAAA	2580
GGCTTTATCG	AGAATCTCCT	TTCTCAAGCT	AGTAAAATCG	TAGTCCAACC	ATTTCAAAAA	2640
AGCTAGAGAA	ATGAAGAAAT	TGAAAATTAT	TATACATAAC	CCAGTAAATG	AGTAGCCATC	2700
ATATACTTGC	CCTTGTCCCA	AAAATGGAAG	CACAAAATAG	GAGACTCCTC	TATAAAAGAG	2760
ATTCACCAAT	ATCATTGGAA	AGAGACCATA	AAAGAAAAGG	AGTTTTTTAG	GAAGCCCTCT	2820
CAATAATAAG	AAAGATAAGC	CTATGCCGTA	CAAGGGTTCC	ATAAAATAAG	ATAGGTAAAC	2880
ATTTCCTACT	ATATAGCTAA	TCATCACAAA	AACAAAGGCC	AACAGTATCT	TCAAAAGAAA	2940
GGCCTTAAAA	ATCCTCTCGA	AAGTAAGATC	AATTCCATCC	ACCTTAAAGA	AGATGACAAT	3000
TTCTAGTCCA	TTAGTAACAA	GTGTATACAA	CAATATCCAA	GCAATGTTCA	TAAATTCTCC	3060
TAGCTCAGTG	TAATTTATTG	ATGGCCTCAG	ACACTTCCCT	GACCTTATAA	CGGGCGATTA	3120

1151

GACAACTTCC ACCATTGGGA GAGAAGAGCA GTTTTTCTTT CTTATCCAAA TGCACCACAT	3180
TTGCAGGATT GATGAGAAAA GAGCGGT	3207
(2) INFORMATION FOR SEQ ID NO: 191:	
(i) CROVIDNOT CHARACTER TOTAL	

(1) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10357 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 191:

CTGAATCAAG TGTACTGCAC CAGTTCGTGC ATCAGGCATA ACAACATCTA CAGATATAAT 60 ATTGTTTTCT GAGTCCGCCT CATAAGTTAA AATCATAAAT TTTTCGATAT TCGAATTTTT 120 AGTAGCTTGT TCAATTTCTT GAATCATTTC ATCAGAAACT AACTCCATCT GAATTGGAAA 180 GGAATGACTA TTTTCATCAT TTTTGTAGGA AGAATGTTGA TTAAGATAAA GTGTATTCAT 240 CTGAGCATAT TCAAATAAGT AGCCACTCTT ATTTTTTTGT ACCAAAGGAA ATTGGTTTGT 300 AAGTCGCTTC TTACCCTTTA TAATTAACAA TACTTTCCCA TATTTTTCTG TATTTGTTTC 360 AAATTCTAAA TATCCCCAAG TCTGTCCTGC TAATTGTAAT TTATACTCAA ACAAATCTGC 420 TGATGCAAAT GCAGTATCAA TATGATTAGG TCGCGTCCAT GCATAACCAT TCGACACTAT 480 CATTGTCTCT CTTTTTCTA GACGTTCATC TACATAATCT TTTTGCCCTT TCATCAAAGT 540 ATCTACAATT TTTTGTGCCT CAAGCGAATC AAAGAGATCC TGATTCAACA TAATTCTTCC 600 TCCTCCAAAT ACTTTTAAT GAATTATACC ATTTTCTTAA AGAAATTACT ACAATAATTA 660 TCTTTTCTT AAAGTTCTGT GTCAGAGTAA TTTAGAAAAT TATATCTTCT ATAGTAAAAT 720 CAATTAAAAA CTGAACAAAT TTATTGGGAA ATTCAAATCG CTTTCTGAAA ATATTTTAGG 780 AACCGTAGTG TAATATTCCA GATTCAATTC ACTATAAAAC TGACCTTTCT CCTGCAAAAG 840 AAAAAGGAAA GACTTCCTTT CGTGCCTTTC CTCTTACTTG CTACTTGTTT GATTATTTTT 900 GGTAAGCTAC TGCTTGTCTG ATAAAATCCT GAATCGGCTC TCCTTGGTGG AGAGCTTTTA 960 CTATTTTCGA ACCGACGATA ACACCATCTG ACACCGCATT GAAGCGTTCC AGATCGGCTT 1020 GACTAGATAC ACCAAAACCT GTCAAGACTG GGATGTCGGC CACTTGATGA AGTTGCGCCA 1080 AGTGCTTGTC CAAATCTGCA CGGTAATTGC CTGATTTCCC TGTCACTCCA TTGATGGCAA 1140 CGGCATAGAT GAATCCCTCC GCCCCTTCAA TCAACTCTTT CTGGCGCTCA ATTCCTGTGG 1200 TCAAGCTTAC TAAAGGAATC AAGGCGATAT CTGTATTTGC CAAAAATGGT TCTACAAAGT 1260

1152 TGGCATGTTC ATGAGGCAGG TCTGGGATAA TCAAGCCCTT CACAGCTGTA TCAGCCAGAT 1320 CTTTGACAAA GTTCTCCACA CCGTACTGAA AGAGGGGGTT GAAGTAGGTC ATGATGACCA 1380 GTGGAATCTC TGTTTCAATG GTTTTCAAGG TTTCAACTAA AGCCTGGGTA GAGGTCCCGT 1440 GGGCTAAACT GCGCAAGCCA GCTTCTTCGA TAACAGGTCC ATCTGCAACA GGGTCTGAAA 1500 AGGGAATACC CACTTCAATT GCAGAGACAC CCAAATCTTC TAAAAAGTGA ATTGTTTCAG 1560 CAAGACCGTC CAAACCTTTC TCGTGGTCAC CAGCCATGAT ATAGGGAACA AAAATTCCTT 1620 TTCCAGCTGC TTTAATAGCA TTTAATTTTT CTGTTAGTGT CTTAGGCATG AGCTTCTCCC 1680 TTCTTTGCTG CATCTGCTTC CAAGCGGTCC TTGACTTGAA CCACATCCTT GTCCCCACGA 1740 CCTGATAGGC AGACAATCAT AGACTTTTCT GGTCCAAGTT CTTTGGCCAA TTTCACCGCA 1800 AAGGCGATAG CATGGCTAGA TTCCAAGGCT GGGATAATCC CTTCCACACG AGACAAGAGT 1860 TGGAATCCTT CCAAGGCTTC TTCGTCTGTC ACAGGGACAT AGCTGGCACG TTTAATATCG 1920 TGGTAGTGAG AATGCTCTGG ACCGATACCA GGATAGTCCA AACCTGCTGA GATAGAGAAG 1980 GCTTCAAGAA TTTGACCATG GGCATCTTGG AGCACATCCA TGAGGGAACC GTGAAGGACA 2040 CCTGGACGAC CCTTGGTCAA GGTAGCTGCG TGGTGCTCTG TATCCACACC AAGCCCTGCT 2100 GCTTCAGTTC CATACATAGC TACTGACTCA TCTTCTACAA AGGGATGGAA GAGCCCGATA 2160 GCATTCGACC CACCACCAAC ACAGGCTACT AGGGCATCTG GCAGATCTCG ACCTGTCAAG 2220 TCACGGTACT GTTGTTTAGC CTCTCGACCG ATGACACTTT GGAAGTCACG AACGATTTCT 2280 GGAAATGGAT GAGGCCCCAA GGCAGAACCA AGGATATAGT GGGTATCGTC GATATTAGCC 2340 ACCCATGAAC GAAGGGCTGC ATTGACCGCA TCCTTGAGCA CGCGCGAACC ATCTGTTACA 2400 GCCTCGACCT TGGCTCCCAA AAGCTCCATG CGGAAGACAT TGAGGGCTTG GCGTTTGACA 2460 TCTTCCTCAC CCATGTAGAT GGTACATTCC ATGTTAAAGA GGGCTGCAGC AGTTGCAGTT 2520 GCCACACCGT GCTGACCAGC ACCCGTTTCT GCGATAATTT TCTTTTTACC CATGCGTTTG 2580 GCAAGCCAAA CTTGTCCTAA GGCATTGTTA ATCTTGTGGG CTCCTGTATG GTTAAGGTCT TCCCGTTTGA GATAAATCTT GGCTCCGCCA ATATGCTGGG TCAAGTTTTT TGCGTAATAA 2700 AGAGGAGTTT CACGTCCTAC GTACTGGCGC AAAAGCTGGT TTAATTCCTC TTGGAAACTT 2760 GGGTCTGCCT GACTTTCACG GTAGGCCTTC TCCAACTCCA AAACTGCTGT CATCAATGTT 2820 TCTGGGACAA AACGTCCGCC GAATTTTCCG TAAAATCCAT CTTTATTTGG TTCCTGATAT 2880 GCCATGCTTT ACCCTCTCTA TAAATCTTCT AATCTTTTCA TGATCTTTTT GTCCATCTGT 2940 CTCCACTCCG CTCGATACAT CTACTGCATA GGGAGTAAAG TGTTGAATTG CTTTTACTAC 3000 ATTATCTTCA TTAAGGCCAC CTGCGATAAA GAAGGGCTGT GCTAGTCCAG TCGTATCCAG 3060

TTGACCCCAA	TCAAAGGGCT	GGCCACTTCC	TGCCACAGGG	GCATCAAAGA	GTAGATAATC	3120
TGCCTGAGAA	TTGGGGACAT	GCCCATTTCC	ATCTACCTGC	ACAGCCTGAA	TACTGGCACA	3180
AGGCAAATTC	ТСАААТАААТ	CATCTGCCAC	CTGACCGTGA	ACTTGAACCA	AGTCCAAGCC	3240
AACTTTGTCA	ATCGCTTCCA	GCAGTTCTAC	CCGACTTGGT	GAAACAAATA	CTCCAACCTT	3300
TTTCACATCT	GCAGGAATAA	GCTTTGCCAA	CTCAGCTGCC	TCTTCTAAAG	TCACCTGTCT	3360
TTTACTAGGT	GCAAAGACAA	AACCGATATA	GTCGGCTCCT	GCTGAAACGG	CTGTTTCCAC	3420
CGCTTCTTTG	GTCGATAGTC	CACAAATTTT	AACCTTTGTC	AATCTGCAAC	TCCTTGATTC	3480
TCTGGGCCAC	ATTTTCTGCC	TGCATAAGAG	CTGTCCCTAC	CAAAATTCCG	TTAAAGTATG	3540
GGGCTAGTCG	TTCCGCATCC	TGCCCTGTGA	AAATGGCAGA	TTCAGAAATG	TAATAGCGAC	3600
CTTCCTCAAA	GTAAGGGGCT	AAATCTACAC	TGGTCTGCAA	GTCGACCTCA	AAGCTAGTCA	3660
AGTTGCGGTT	GTTGACCCCG	ATAATCTCAG	CACCAAGTCT	GTGGGCTACC	TCTAGTTCAG	3720
CTAGATTGTG	AGTCTCCACT	AAGACTTCCA	GACCAAGCTC	TGTCGCGTAG	TCATACAGTT	3780
CCTTGAGGCG	TTCTTCGGAC	AAGGCTGCCA	CAATGAGCAA	GATAACTGTC	GCACCTGCAT	3840
TGCGAGCGCG	GATGATTTGC	TTTTCATCGA	TGATAAAGTC	TTTGTTGAGC	GTCGGAATCT	3900
CTACCTGACT	GGAAATTTCC	CGTAGATAAT	CCAAATGCCC	TTTAAAGAAA	ACCTCATCTG	3960
TCAACACCGA	AATCATCACT	GCTCCGTTTT	CTTCATAAGT	CTGGGCCTGT	TGCACAATAT	4020
CCACATCGAG	ATTGATATCT	CCCAAACTAG	GGCTAGCTTT	CTTGACCTCA	GCGATTACCT	4080
GCAAGCGGTC	CTGATGATTC	TTCAAAAATT	CTGCCAAGCG	ATAGGTCTGG	CGCAGAGGCT	4140
GGATTTGCTC	CAGCTTCATC	TGCTCCACCT	CACGCGCCTT	CTGCTCTAAG	ATTCGTGCTA	4200
AAAATTCCTG	ACTCATTTTT	GGTACTCCTG	TAACAGTCTG	AGTTTTTCAA	GGGCCTTGCC	4260
TCTAGCAATC	ACTTGACGGG	CCAAGGCAAC	CCCTTCCTTG	ATGCTATCAA	TCTTACCATT	4320
AGCATAGAAA	CCAAGACCAG	CATTCAAGAC	TGTCGTTTCC	AAGAATGGAC	TTGCTTCGTT	4380
TTTCAGAACG	CTAAGCAAAA	TTTCTGCATT	TTCCTGAGCA	TTCCCACCAC	GAATATCTTC	4440
CATAGCATAG	CCTTCCATTC	CCAAATCCTC	TGGAGTAAAG	CTTGACAAGC	TGATTTCGCC	4500
ATTTTCAAGA	AGTGCAATCT	TGGTTGTTCC	GTTCAAGCCA	GCTŢCATCCA	ACCCTTCTGG	4560
TCCAGCAACC	ACGATGGCAC	GTTTGCGACC	CATATTTTTC	AAAACCTGAG	CTGTACTTTC	4620
TAGGAGTTCT	GGACGACTAA	TTCCAAGAAG	CTGTGTTTCT	AAAGCCATTG	GATGAATCAG	4680
TGGACCAGTC	AAGTTCATAA	TCGTTGGAAT	TCCCAATTCC	AAACGAGCTG	GCATGATGTA	4740
TTTCATAGCT	GGGTGCATAT	TTTTAGCGAA	GAGAAAGACG	ATTCCAGTTT	TATCAAAGAC	4800

CTTACCTAGT	TCAGCTGGTT	TGAGGTCAAG	1154 ATTGATTCCC	AAGGCTTCGA	GGACATCTGC	4860
GGAACCAGAT	TTAGAAGATA	TCGAGCGGTT	ACCGTGTTTG	GCCATGTGAA	TACCGCCACC	4920
AGCCAAGACA	AAGGCTGCAG	TTGTGGAAAT	ATTAAAACTG	AAAGACTTGT	CCCCACCTGT	4980
ACCACAGTTG	TCCATGGCAT	CATGAATCTC	AGTTGGAATA	TGCTGGGCAT	GTCCTCTCAT	5040
GACTTGGGCA	ATGGCTGTGC	GTTCTTCAGG	TGTTTCCCCC	ТТСАТСТТАА	GAGCTAAGAG	5100
GAGAGAAGCA	ATCTGCGCTT	CAGTTACACG	CCCAGTTACG	ATACGCTCAA	TGACATCCGT	5160
CATTTCCACA	CCTGATAAAT	TTTCAAATTT	TGCTAGTTTT	TCAATAATCT	CTTTCATCCT	5220
AGTTTCCTCA	CTTTACAACC	TCCTCGATAA	AATTCCGAAT	AGAAGACAAG	CCGTCTGGCG	5280
TTCCAATGCT	CTCTGGATGG	TACTGGAAGC	CATAAATCGG	TAGGTTTTTA	TGTTGAATCC	5340
CCATGATGGC	TTGGTCATCA	GTCGAACGAG	CTGTCACTTC	AAAGTCTTCT	GGCATTTCCT	5400
СААТСААААТ	ACTGTGATAA	CGCATGACCG	CACGGCCATC	CTCAATACCT	TGATACAAAA	5460
CAGATGGCGC	TTCAAAGTTG	ATATTGCTCT	GTTTCCCATG	CATGACTTTT	GGAGCCAAAC	5520
CTAGCTTACC	ACCAAAGACT	TCTGCAATGG	CTTGGTGGCC	CAAACAAATC	CCAAGAATCG	5580
GCTTCTTGCC	TGCAAAATCA	CGAATCATGT	CTTCCATCTT	TCCAGCATCA	ACTGGCCAAC	5640
CAGGACCAGG	AGAAAAGACC	AGACCATCTG	CTTTTTCAGC	TTCTTCATAC	AGCTTGGAAT	5700
CATCATTTCT	CAGAACCTGA	ACTTCTGCAA	AATTCCCAAT	GTATTGGGCC	AAGTTATAGG	5760
TAAAAGAATC	ATAGTTGTCA	ATCAATAAAA	TCATGGTCTT	AGTTCTCCAA	TTCTAGTCAT	5820
AGATTTTGCT	TTGTTAATGG	TTTCTTGGTA	TTCGTTTTGG	GCGATAGAGT	CGTAGACAAT	5880
CCCTGCCCCA	GCCTGCACAT	AGGCTCTTTG	ATTTTTGAGA	ATCATGGTTC	GGATGGCGAT	5940
GGCCAAATCC	ATATCACCCG	TCGCAGACAA	GTAGCCGATT	GCCCCAGCGT	ATACTCCCCG	6000
TTTTTCCGTT	TCCAGTTCAT	AGATACGTCT	CATCGCTCGA	ATCTTTGGTG	CTCCAGAAAC	6060
GGTTCCAGCA	GGAAGCGTTG	CTTTCAAGGC	ATCCATGGCA	GTGAGTTCTG	GAAGCAAACG	6120
CCCCTTGACT	ACGCTGGTCA	AATGCATGAC	GTAGCGGAAG	AGCTCCACTT	CCATATACTT	6180
AGTGACTTGG	ACACTGGTCG	TTTCAGAGAT	GCGGCCAATA	TCGTTACGCC	CCAAGTCTAC	6240
CAACATTCGA	TGTTCTGCTG	TTTCCTTCTC	ATCAGAGAGG	AGGTCAGTCG	CCAAGGCCTT	6300
GTCTTCTTCA	TCCGTAGCCC	CTCTTGGTCG	CGTCCCTGCA	ATCGGATTGG	TTGTCACGAT	6360
GCCATTTTTG	ACAGAAACCA	AACTTTCTGG	ACTAGCTCCG	ATGATTTGAT	AATCCCCAAA	6420
ATCATAGAAA	TAAAGGTAAT	TAGAAGGATT	AGTCACGCGG	AGATTTCTGT	AGAAGTCAAA	6480
TGGATTTCCA	GTAACTTCTG	CTGAAAAACG	CTGGCTGAGT	ACACATTGGA	ACATATCTCC	6540
GTTACGAATC	AAGTCACGAG	CTGTTTCTAC	CATTCCCTCA	AACTTATGTG	GAGCGATATG	6600

CGGTTTGAAG	TCTAACGGAG	ATAGATCCAA	ATCTTCAAAT	TCATTTGGAG	CAGGAATGCG	6660
TAATTCCTCA	AGCACTTGGT	TCAAGGATTT	TTCCAAGGCC	TCTTGACTGC	GCTCACTATA	6720
AAGTGCATCC	TCTATGACAT	GTATCTTCTC	CTTCTTGTGG	TCAAAGACCA	TATAGCTCTC	6780
ATAGACAAAG	AAĄTGCATGT	CTGGCGTCCC	AATTGTATCC	TCAGGGATTT	GACCAATTTC	6840
TTCATAAAGC	GAAATCATAT	CGTAACCCAC	AAAACCAATG	GCTCCACCAC	CAAAAGGTAG	6900
CTCTGAGTGG	TGCTGACTCT	TATGAATCAC	TTCATAAAGG	AAATCCAAGG	GATCCCGATC	6960
AATCACTTGA	CCATTTTGAT	AGAGAACCCC	ATTTTCAAAC	ТТААТСТСАА	AAACTGGATT	7020
ATAGGCTAGG	ATAGAAAAAC	GAGCTGTTTC	CTTGTCTCTC	GGAATACTCT	CTAAAATAAC	7080
CTTATGTTGC	CCCTTTAAGC	GCATATAAGC	CAAGATTGGT	GATAAGACAT	CTCCATGAAT	7140
GATTCGTTCC	ATTGTAATTT	CCCTTTCAGT	TCTACTTCTA	GTCCGTGGTG	ACTGTATGAA	7200
AAATCCCCAC	GCAAAATAAC	TTGCGTGAGG	ACGAAATTCG	CGGTGCCACC	TCAATTATAG	7260
GATTTCTCCT	ATCTCTCATT	CCTGTCTCAG	ATATCTCCTG	TAACAGGCTG	TGCGATAAAG	7320
GGCACTCCCT	TGAGAATGAT	GTTTTCTTCT	CTCGTTTCAG	ATGAACCCAA	CTTTACAGCT	7380
TTCTCTGCTT	GTTTTCAGCA	ACCACAAGCT	CTCTGTGAGA	GAAAGAACTG	TAATTTTTCC	7440
ATCTATTATT	TTTTAGCTTC	TAGTAGTCTG	CAATCGCAGC	TAGGTCCTTG	CCTCCACGAC	7500
CAGAGACATT	GATGAAGAGA	TGTTCATCTC	GGTACACCTT	TATACTCTTC	GAAAATCTCT	7560
TCAAACCGCG	TCAACGTCGC	CTTGCCGTAG	GTATGGTTAC	TGACTTCGTC	AGTTCTATCT	7620
GCAACCTCAA	AACAGTGTTT	TGAGCTGACT	TCGTCAGTTC	TATCCACAAC	CTCAAAACAG	7680
TGTTTTGAGC	TGACTTCGTC	AGTTCTATCC	ACAACCTCAA	AACAGTGTTT	TGAGCTGACT	7740
TCGTCAGTTC	TATCCACAAC	CTCAAAACAG	TGTTTTGAGC	AGCCTGCGGC	TAGTTTCCTA	7800
GTTTGCTCTT	TGATTTTCAT	TGAGTATTAC	TAGCTTTTTT	CGTATTAGTC	CAGCCTTTTT	7860
GTTTGCTTTT	AGTAGTAGGC	ATGGAGCTGT	AGATAGAACT	CAAGTTCATC	AAAGCGACTT	7920
AAGGCCCTAA	TAAAAGATAA	ACCAAACGAC	GGATAGAAAA	AAGCCCACAC	ACAGAATATA	7980
CTTCCGTGTG	AGGGCGTTGG	TAACGCGGTG	CCACCTCAAT	TATAAAGGGA	CTATCCCTTT	8040
ACATCTCTGC	CTTGTTTAAC	AACAAGCTGC	ACTGTAAGGT	GTGCGCACCG	AATTTTCATT	8100
GTTTCAAATT	CATTTTCAAA	ATCAGCCCAC	TTTCACTACT	TCCAACCACC	TATTCACAAT	8160
CACCACAGGC	TCCCTGAAGA	TCAAAAATAG	TTACTTTTCT	GATTTGTTGA	ACTTATTTTA	8220
ATACTTTGTT	TTTTCTTTGT	CAAGACTTTT	TTACGATTTT	TTTGAAAATA	TCATTCGAAT	8280
ATGACCATGT	CTTCCTTAGA	TCGAACATGA	ACATGTCCCA	CTTCTTAGAA	ATTGGATCCA	8340

			1120			
ACTCAATAGA	AACTGAATGG	AGGCTAAACA	GAACTTATTT	TAGAACACTC	CATCTTTTCC	840
ACTAGGATTT	TCAAGAATTA	AACAATACTA	GAAACTCTGT	CTCCTAACAA	ATTTAGGAGA	846
AACTTCAACA	GATGTGACAC	TTTCCCCTTT	AATAATTGCT	AAAACACCTT	CTATCATTTC	852
TTTAGCCAAT	TTAACATAAT	TGGGAGCAAT	TGTAGACAAA	GCTGGAGTAT	AATACTGAGA	858
AATAGGAATA	TTATCAAATC	CAATGATAGA	AATATCATCT	GGAATAAGAA	TTCCTTTCTC	8640
ATAGCACGCA	CGAATCAAGC	CCTGAACCTT	TTCATCTCCT	GAAACAAAAA	TAATGTCCGG	870
ATAATTTTGG	GTAGTCAAGT	GCTGCATTGC	ATAAGAATAA	ACTGAATCAA	TTGTAGATAA	876
GCCATAAATG	ACTTTTAAAT	CCATAAAGTA	ATTTTTATCA	TTCAGAAAAG	AACGCACACC	882
TCTTTCACGA	TCCTTATTAA	CATGGGATTC	TCCTCCCATA	AGCAACCACA	TATTTTTAAA	888
TTTTTCTTCA	GTTACAGCTT	TCATCATATC	ATAAGTAGCT	TGAAAATTAT	TATTAGATAC	8940
ATAGACTACT	CCAGACGTTT	GAGATTCACC	GAAAACAAGA	AAAGGCATAT	GGTTCTTCTT	9000
TAAATACTGA	ATTCTGATAT	CATCTACACT	ТТСАТААААА	ACAATAACAC	CATCTACTAG	9060
GCTACCTGTG	CTTGATATAA	TTGAATTACT	AATTGTATCC	TCCTCTCCAA	AGTACTCAAC	9120
TATAGCATTA	ACACCAAATT	CTTTACACGT	CCGTAACACT	TTATCTAACA	GCGTATGAAA	9180
CCAAATTAAA	GGAAAAGAGT	CGATTTTTTT	TACAGAAATC	ААТАТАТТТА	TAGCTTCTTT	9240
TTTAGTTAAA	TTTTTTGCAT	ACGCATTTGG	AATATACGAC	AATTCCTCTA	TAACTTTTTG	9300
AATCGCTTGA	TAAGTTTCTT	CTTTAACATT	TACTCCACCA	TTAATAACTC	GTGAAACTGT	9360
TTTTGGAGAA	AAACCTGATA	AACGTGCAAT	АТСАТАААТА	GTTACCTTTT	TCCCATTTAT	9420
ATTTTTCATT	TCAGTCCTCC	ATTACGAACA	TTCTAATATT	ACTATACAAT	ATTTAATTTT	9480
TTTTAACAAG	AGAATTTAGT	AAATTATTTA	AGATCCACAA	ATTCACAAAA	TTAATTTTAC	9540
AAATATTCTT	CCCCTTCAAA	AAAGTTTAAA	TTGCATTTCA	CACCTTTATT	TTTAAGAATG	9600
TTTCCAACTT	CACGACAAAT	AAATTCATAT	GAGAAAAAAC	TGCCATAAAA	TTGTAGATTA	. 9660
ACTTTTTCAG	TAAAATGTGT	AGGATTTATA	AAAACATATA	ATAGCCTGTC	AATGTAACAT	9720
TTTAACATAG	AGTTAATTTT	TTCTTTAAAG	ATAACATTTG	TTATCAACTC	ATCAGGAGGT	9780
AAATGAAAGG	CAAACACCAT	TTCACAAATA	TCATAAAAAG	AAATAAATTT	GTATACTTGT	9840
АТСАААСААТ	TATTATCAAA	ATATTCTATT	TTACCTAAAT	CAAAATTGAT	TTTATAATCT	9900
TTCATAAAAA	CCTCTGAGCA	AAAATCTACT	CAAAAATTAG	atgattaaaa	САТСТААААА	9960
GCAAAAGGAC	AAAAACATCT	GTCCCTTTGT	TTACTAAATT	TCAGCTAATT	TCTTCGACAT	10020
AAATAACACC	ТАСААТАТТА	GCAATTTCTT	CCATCAGTCG	AAGATGTTCA	AATCTACCTG	10080
ATAATTCCAG	AGTAATAAAT	GACGCTATTT	TTTTGTCCGG	AACATCAAAG	TATTCAATTC	10140

1157

TGTCAGAATT	AACATCTCCA	AACGCTGTTC	TTGAATCGGT	CATTCTGATA	CCATTTTCTG	10200
CACAATAAAC	CAATACACGA	TTATAGGCTT	CTGTAGATTT	AACCACTATA	TACAATTCAA	10260
TCATTTTAGA	ACGATTTTGC	AGATATTTT	TTAGTGGTTG	GAACATGGAT	ATCACACCCC	10320
АААСАGAA AT	GGCTACTAAA	AGAGCTCCCT	CATAAGG			10357

(2) INFORMATION FOR SEQ ID NO: 192:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 6867 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 192:

CGGGACATTC	TCAATCTTCT	GTCTTTTGTT	TTTCTCTTCT	TTCTATGATA	CAATGGAAAA	60
AATAAATTCA	AAAGGAGTTT	TTTTATGACT	TATCCAAATC	TCTTGGACCG	CTTCTTAACC	120
TATGTTAAGG	TCAACACGCG	CTCTGATGAA	CACTCTACTA	CTACTCCAAG	TACACAGAGT	180
CAGGTTGACT	TCGCAACAAA	TGTCCTAATT	CCTGAAATGA	AACGTGTTGG	ACTGCAAAAT	240
GTTTACTATC	TACCGAATGG	TTTTGCTATT	GGAACCTTGC	CAGCCAACGA	TCCGTCTTTA	. 300
ACACGTAAGA	TTGGTTTTAT	ATCGCACATG	GATACTGCTG	ATTTTAATGC	TGAAGGAGTC	360
AATCCACAGG	TAATTGAAAA	CTACGATGGT	GGTGTGATTG	AACTAGGGAA	TTCTGGTTTC	420
AAACTCGATC	CAGCTGACTT	CAAGAGTCTT	GAAAAATATC	CAGGACAAAC	GCTCATCACA	480
ACAGATGGAA	CAACCTTGCT	AGGTGCTGAT	GACAAGTCAG	GAATTGCTGA	AATTATGACA	540
GCCATTGAAT	ATCTAACTGC	TCATCCTGAA	ATTAAGCACT	GTGAGATTCG	TGTTGGTTTT	600
GGTCCAGATG	AAGAAATCGG	TGTTGGTGCC	AATAAATTTG	ATGCAGAAGA	TTTTGATGTG	660
GATTTTGCCT	ACACTGTTGA	TGGTGGTCCA	CTAGGTGAAC	TTCAGTACGA	GACTTTCTCA	720
GCCGCTGGTG	CTGAATTGCA	TTTCCAAGGT	CGTAATGTCC	ACCCTGGTAC	TGCCAAAGGG	780
CAGATGGTCA	ATGCCCTTCA	GCTAGCAATT	GATTTTCATA	ATCAACTTCC	AGAAAATGAC	840
CGACCTGAGT	TAACTGAAGG	TTACCAAGGT	TTTTACCATC	TAATGGATGT	GACAGGTAGT	900
GTTGAGGAGG	CGCGTGCAAG	CTACATCATT	CGTGATTTTG	AAAAGATGC	CTTTGAAGCG	960
CGTAAAGCAT	CCATGCAATC	TATCGCTGAT	AAGATGAATG	AAGAACTTGG	GAGCGACCGT	1020
GTCACTCTCA	ACTTGACAGA	CCAGTACTAC	AATATGAAAG	AAGTCATTGA	AAAAGATATG	1080
ACTCCAATTA	CCATTGCTAA	AGCCGTTATG	GAAGATCTAG	GTATCACGCC	TATTATCGAA	1140

			1158			
CCAATCCGGG	GTGGAACAGA	CGGCTCTAAG	ATTTCCTTTA	TGGGAATCCC	AACTCCGAAT	1200
ATCTTTGCAG	GTGGCGAAAA	TATGCACGGA	CGTTTTGAAT	ACGTTAGCCT	TCAGACTATG	1260
GAACGTGCAG	TTGATACCAT	CATTGGCATC	GTAGCTTATA	AAGGCTAAAA	AGACGAGGTA	1320
GCTCAGCTAC	TTCGCCTTTC	TTTTTATTCT	ACTGGTTTTT	CTTGATTTCC	AGTAGTTGTA	1380
GAAGATTCTG	TTGTTTCATT	TTCTGAAGTT	GATTCAGCAG	GTTTAGAATC	TCTTGTATTG	1440
CTIGGTTTGT	TTTCGTCGCT	AGCAGTTTCA	ATGTTAGATT	CTGCAGTTGC	GTTTGGTTGG	1500
TTCTCAGCAC	TGGTGTTATC	ACCATTTGCT	TCAGCATTTC	TTGCTGGACT	TGTTTCTTCA	1560
CTTGCGCTAG	CTTTTGACTG	GATTTGATGA	TTCAAAACTA	GAATAGCTTT	TGTCGATTCA	1620
agtaaagctg	TTTTGTCTTT	ACTCTTAGCA	GAAAGTTGAT	CTAATAATGC	ATCCACCTTA	1680
TCAAAGTCCG	CATCAGATCC	ATTATTACTT	TCTAAATAAG	AGTGAAGCGA	CATGAGAATA	1740
TCGTAGAGTT	TTTGATAGAG	TACAAGTGTC	TGAGGATCTT	GCTCAGCATT	TTCCTTTTCT	1800
TGTTGAAGGG	CGCTAGCGAT	ACGAGTCAAG	ACATCTTTTA	CCTGACTGTT	TACTTCATCC	1860
AAGTCTGCAT	CAGCCTTGTT	TGTGGCAGCT	TTTAGATTTT	CTACTTCTTC	TGCCAAGGAT	1920
TGTCTGATTC	CTTCTTCATG	GATTTGTTCC	AAGAGTTGAT	TTGCCTTGCT	CAAAAGACTT	1980
TCTACTTCTT	CCTTGCTATC	TGTCGCAGAT	TATTGGTTGC	TATCTACCAT	GTACTCCTAA	2040
AACAGGAGAG	TTATAATCCA	AGATTACAAG	GCCTTACAGA	AATAAGAAAT	CCAGATAAGA	2100
CAATGTTCGT	CCAAGACGCT	ATTCGCTTCG	CACAGCAGCA	CGGATTCAAT	ATGCTTTAAT	2160
TTTAAAGTTT	AGGTGTCAAG	ACCTCTTTTT	AGTGTGCCCA	AAATTTAGAG	AAGTAATCAA	2220
TCAACTAACT	TTTATTTTT	TCAAACTTTC	AGTAAACTGA	CCTAAAGCTA	ACTCAATCTG	2280
TCTTTGTAGA	TGCTTCTGCT	ATCAGCTAGA	AGTTGATCTA	CTTTTGCCAA	GACTGCCTTC	2340
TCATCAAAAG	TTCCAGGTTG	ATAGTTGGAT	TGCAGGGATG	GAATCTTGTT	TTTCAAAGCC	2400
GCTTCATATC	CCTTAGTTTG	AACCTTGATG	TAGTGATTGT	GGTCGCCATG	AGGAATCACA	2460
AAACCTTCTG	AATCTTCACT	TATAATTCGA	TTGGCATCAA	AACCATGACC	ATCTTCTTCC	2520
TCATGATGGA	CATGTAGTGA	CGGATTACTT	AATACAGAAC	TAGAAGAACT	TCCTACCTCT	2580
TCCGTGTTAG	AGTGTGATGG	GGGATTGTTA	AGAGATGACT	TAGGAATATA	GTGATAGTGA	2640
TCCCCATGTC	TTACTATATA	AGCATCACCT	GTATCTCTGA	CAATATCATT	AGGGTTAAAG	2700
ACATATGTGG	CTGCTAATTC	ACCTGCCGAC	AAGTCACTCT	CAGGAATGAA	ATGATAGTGA	2760
CCACCATGTG	GTACTATAGT	AGATTGAAAT	AGAATATGAG	CAAATTGATA	AGGGGATTTT	2820
AAAGTAATTT	CTAACAATGA	TTTAGAAACT	ATGATGTGCT	ATTCTAAATT	СААСТСАСТА	2880
TATATAACCA	TCATCGGTAG	TATAACGTCC	CTGTAATTTT	GCTACAGATA	CTTCTGCACT	2940

AGCTCCTTTA	TCGTCTTTAC	CATGTTCTTG	TTTTTGGCGA	TTGATTTCAT	CTTTTGTTCG	3000
PACATTTTCT	GCATGAGCTT	GATCTTTAAG	GTAAACATAA	TACTTTCCAT	CTACCTTAAT	3060
ATATATCCT	CCCTTAACCT	AACTGACGAT	ATCTTGATCT	TTCGGCTGAT	AGTTGGGGC	3120
TTCATTAAT	AGCTCTTCAC	TAAAGAGCGC	ATCAAAAGGA	ACTTTACCAT	TATAGTAGTG	3180
TAATGATCG	CCATGAGAAG	TTACATAACC	TTGATCTGTA	ATCTTAATAA	CAATTTGTTT	3240
GCTTGAATT	CCTTCTTTTT	GACTAACCTA	GTCTGGAGTC	AAATTTTCAG	TCTTCTTAGT	3300
STCTTTATTA	CTGTTTACAT	ATGAAACACG	ATTTTTATCT	GTATTGGCCT	GTTAGCTATG	3360
TGGTTCAGA	GCATAAACAC	ACAGACTTAA	GGAAAGGATA	ACAACAGATC	CAGCTGCTAT	3420
\TATTTCTTT	TTAAATTTCA	TAATTACCTC	ATTTCTATAA	TTATTTATAT	GATGTCTTCA	3480
TATTAAATG	ATTAAATAAA	TTAATTAACC	AATTAATTAA	СТАСТАЛАТА	TTCCACCTCT	3540
TTTAAGTTG	TATGTCAAGA	AATTTTATAT	АТТААТААТА	AAATGAAATT	CTCCCAAAGT	3600
CAGAGTTTTA	TTTCTAACTT	TTGAGAGAAC	TTCATTTTTG	ATTCAGACTT	TTTCTACTGC	3660
ATTCCTTAC	GCTATGAGAT	CAGATAAATT	CTTTTTTATC	ACTTCTCCAC	TTGGCAATCT	3720
PAATTCAATC	GTTCCATCCA	TATTGAATAT	AACACTATCT	AAGCCTAATC	CGTAACTAGC	3780
GTAAATTTT	TCTAATTTTT	CTTGTACAGG	ATCTACTGCT	GGAGCTTCCT	CTAATGCTGG	3840
TCTAACATA	GGGTCACTCC	CCACATTCCC	TTCTGGATTC	AACATTCCAT	TATCCGTTGA	3900
STTTTCTGGT	TTTACAGGTT	TTTCGTTTGG	TGCCTCTGGT	AAAGAATCTG	CTGGTTTATT	3960
TCTGTTGGT	TGGTTCTCAA	CTGTTCCAGT	AGATACTTTT	CCATTTTCAG	ATGGTTTATT	4020
TCACCATTT	CCTTGAGGTG	CTTCTCCTGT	AAAATCTGCC	ATATTCTTTT	TAATGACTTC	4080
CCCGATGGT	AAATATAATT	CAATTGTTCC	GTCCATATTA	AACAAGACAT	TTTCTAGCTT	4140
ATCCCATAA	CTTTCAGCAA	ATTTTGCTAC	TTTTTCTTGT	ACAGGATCCA	CTGTAGGAAC	4200
TCTTCTAAC	GTTGAATTAC	TAGTACTATT	CCCAGTTTCA	GAAAGTTTTT	CTTTTTCTAC	4260
TTCTCACTA	GTCTTTGGTT	CTTCTACCTT	TTCATCAAGT	TTTAAGTTTT	CTTGTGCTTT	4320
TTCCTTTTA	AATTGTGGTA	GAATACTTGG	TTTATCAGTT	TGATTTTCTT	TTTCCAAGAT	4380
GGTACTTCC	ACAATATAAG	TCGATTGATT	GTCCAAATAA	GCATTTGCCA	TGAAGGTTAC	4440
GGAATTTTA	TTTCCGGCCG	TTCTGGTTGT	TCCTTGGTTT	AATTTCGGAA	TCGGTAATTT	4500
ATTTCACCA	ACTTTATAGT	TATTTTCTAA	ATAAGCATTT	CCATGAAATT	CATCAAACAC	4560
CTGACTAAA	GCATCAGTTC	CTTTAGGCAC	TGCAAATTGA	GGGTTCACTC	TTAAATAAGT	4620
TCCCCTGCA	TGGAAAGGAT	AGAAAATCGT	TTGACTGGCC	ATTTTGTAAG	CTAAAGAGGT	4680

			1100			
TGGAACTGTA	AATGTACCAT	CATAACTTAC	TTCTGGATAA	TCTTTTGAAG	CGATAGTATA	4740
CTTAAATGTT	TGTCCTGGTA	AATAAGGTTG	ATCTAATTCA	AAGTTTGCAA	TATTCCCTAC	4800
TCCTTCTCCA	AATACTTTAC	CAGATACTTT	CTCCAATACT	TTTCCATCTG	GTGTTATTAA	4860
TTTTACTAGC	ATATTGATAC	CTAATTTTTT	CTCCAATTCA	GGCGGAAAAC	TAAAAGAAAC	4920
GCGTTTTTGA	CCATTGGCTA	GAGTAAAGTT	TTGATTATTA	AACGTACTAT	TTTTTAACAA	4980
ATTAACAACA	TTCGTTAATT	CTTCTCCAGT	ATAAACTTTA	TTCCCTTCTT	TTTTAGCAAC	5040
TCCTTCTTCG	GGTTTAAACA	GTTCATAGTT	ACTGTGAGAA	TGACCAATTC	CAACCGGTTT	5100
ATGTTCATCA	ATCGGATCTG	CATGATGGTG	ATCTCCATGC	GGATAAATAA	TCGCATTTTT	5160
TTCTTTATTC	ACGACAATAC	TTTCACGTTT	GACACCATAT	TGTTTCATAA	TGCCAGCAAT	5220
TTTTTCTTCG	ATTTTTTTAT	СТАААТСТТТ	CATTTCTTTG	GCATTACTTG	GATAATCCTG	5280
TTCATGAGAT	GACAAAGAAT	CTAATCCATT	ATGACTAGTT	TTAACTTCCT	CTAAATGTTT	5340
TTGCGCAsCT	TAATTTGCTC	TTCTGTCAAG	TCCTTCTTGA	AGAAATAATG	ATTGTGGTCT	5400
CCGTGACTCA	TGACAAAACC	TGATTCATCT	TCAGCGATAA	TACGATTAGC	ATCAAATCCG	5460
TATCCATCTT	CTTCATGTTT	CTCATGTGAA	GTTCCTGGAT	TGATTGGAAG	AGATGGAGAA	5520
GGTGTTGCTA	GACTATTGTT	TGGAAGAGTC	GGTTGCCCAA	TTTGATTTGA	TTTTGGAATG	5580
TAATGGAAAT	GATCACCATG	TCTTACAATA	TAAGCTGTAG	CCGTTTCTTC	AACGATATCT	5640
TTTGGATTAA	AAATATAACC	ATCAGATGCT	GAAGAGAGCT	CCTTACTTGT	CGTTAAAGAA	5700
GAAGGATTGC	TTGAAAGACT	GCCTAGACTA	GACACTACTT	CATTAGGTTT	TGCATTTGTA	5760
GAAACTGTAG	AACCAGTTCC	ACTGATAGGC	ACCATTCTGG	CAATCTTTTC	TTCTAAGGCA	5820
GAAAGCTTGC	TGTAAGGAAT	AAAGTGGTAA	TGGTCGCCAT	GCGGAATCGC	AACTCCATTT	5880
GGTGTACGAC	TGATAATCTT	AGCAGGGTCA	AAGACCAGGC	CATCTGATTC	ACTGTAACGT	5940
TGGGCGCTAG	GTGAATCATA	GAGTTCCTTC	AAAAGACTCT	GGAGATTTTC	AGATTTATTT	6000
GCTGGCTTGC	TAGTTGATCC	TTTTGCTACA	GATTGCGTGT	TATTGTCACT	AGCTGTTGAA	6060
GAATAGCTTA	ACTGACTCGG	TTGCATATTT	TTTCCAGCCA	GATGTGCTTT	AGCTGCTGCT	6120
AATTCACTAG	CAGATAAATC	GCTTTTGGGA	ATGTAGTGAT	AGTGACCTCC	ATGAGGAACG	6180
АТАТААССАТ	TACCCGTATC	TTCGATAATA	TCAGCTGGAT	TAAAGACATA	ACCATCATTT	6240
GTCGTATATC	GTCCCTGAGA	CCTTGCTACA	GCAACATTAG	AGTTAACCTT.	CTCATTATCT	6300
TTGACATGTT	CTTGTTTTTG	ACGATTGATT	TCATCTTTAG	TTCGAACATT	ATCAGCATGA	6360
GCTGCATCTT	TCAGGTAGAĆ	ATAATATTT	CCATCGACCT	TGATGATATA	ACCACCCTTG	6420
ACTTCATTGA	CAATATCAGC	GTCTTTAAGT	TGATAGTTTG	GATCCTTCAT	CAAGAGTTCT	6480

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TCACTAAAGA	GGGCATCATA	AGGAACTTTC	CCATTATAGT	AATGATAGTG	GTCACCGTGT	6540
GACGTTACAT	AGCCCTGATC	TGTAATTTTG	ATTACAATTT	GCTCAGCCTG	AATTCCTTCT	6600
TTCTGGCTAA	CCTGGTCTGG	TGTCAAGTTT	TCACTTTTCT	GACTTGACTG	GCTGCCATCC	6660
ACATAAGAGA	CACGATTATT	GTCCTTATTT	TCCTGCGAAC	GATGCTGGTT	TAGTGCATAG	6720
GCACATAGAC	TCAAGGATAC	GATAACAGCT	GATCCAGCTG	СТАТАТАТТ	ТТТАСТАААТ	6780
TTCATAAATC	CCTCATTTCA	ATAAATGATG	AAGTTTTTTC	TCAACTTCTT	TTACTTTATT	6840
AAATAGTTTT	CTAAACCCGG	GGGTACC				6867

(2) INFORMATION FOR SEQ ID NO: 193:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 999 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 193:

CGTTCTAAAA	ATGCAGTACG	TTTGATTGAG	AAATCAGTTA	AAGGTATGCT	TCCACACAAT	60
ACACTTGGAC	GCGCTCAAGG	TATGAAGTTG	AAAGTATTTG	TTGGAGCTGA	GCACACTCAC	120
GCTGCACAAC	AACCAGAAGT	TCTTGACATT	TCAGGACTTA	TCTAAGGAAA	GGAACAATAA	180
AGTATGTCAC	AAGCACAATA	TGCAGGTACT	GGACGTCGTA	AAAACGCTGT	TGCACGCGTT	240
CGCCTTGTTC	CAGGAACTGG	TAAAATCACT	GTTAACAAAA	AAGATGTTGA	AGAGTACATC	300
CCACACGCTG	ACCTTCGTCT	TGTCATCAAC	CAACCATTCG	CAGTTACTTC	AACTGTAGGT	360
TCATACGACG	TTTTCGTTAA	CGTTATAGGT	GGTGGATACG	CTGGTCAATC	AGGAGCTATC	420
CGTCACGGTA	TCGCTCGTGC	CCTTCTTCAA	GTAGACCCAG	ACTTCCGCGA	TTCATTGAAA	480
CGCGCAGGAC	TTCTTACACG	TGACTCACGT	AAAGTTGAAC	GTAAGAAACC	AGGTCTTAAG	540
AAAGCTCGTA	AAGCATCACA	ATTTAGTAAA	CGTTAATTCG	AAAGAATTAC	TATACTTATA	600
CAGAGCACCT	TTCGGGGTGT	TCTTTTTTTA	TACTTTCTTA	CTAAATTGGT	GCAATTGACA	660
CAGTTGTTGC	GACTTTAGTC	GCTTACAAAT	GTGGCTGCAA	CCTGACATGG	TCAGTTGCCT	720
CAAAACGTTA	ATCAATACGA	TTATATCAAC	GTTTCAAAGC	ACTCAAGGGT	TTACCCTATG	780
GGTGCTTTTT	TCTATACTTT	CTAAAAAAGT	TTACCCTAAA	ATTTGCCCTA	AAATTACCCT	840
ACTTATTTT	AAGATGTTGG	TAGGCAACTT	GTCCAGCAGA	TAATGGAACT	ATGTTTGAAG	900
TATTAACATA	AGTCTTAGTT	GTAACGGTAT	CGCTATGAGT	TAATGCTTCA	GAAATGGCTT	960

			1162		
CTAAGCTCAT	TCCTGCTTTT	TTAGCAAGTG	TCGCTCCTG		999

(2) INFORMATION FOR SEQ ID NO: 194:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2315 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 194:

AATATTATCA	CTGTTCTTGA	AGGCAGAACA	CAAGCTGTCA	TCCGAAATCA	CTTTCTTCGC	60
TACGATAGAG	CCGTTCGTTG	TCAAGTGAAA	ATCATTACGA	TGGATATGTT	TAGTCCTTAC	120
TATGACTTGG	CTAAACAGCT	TTTTCCGTGT	GCTAAAATCG	TTCTAGATCG	TTTCCATATT	180
ATCCAACATC	TCAGCCGTGC	CATGAGTCGT	TTTCGTGTTC	AAATTATGAA	TCAGTTTGAA	240
CGAAAATCTC	ATGAATACAA	GGCTATCAAG	CGTTACTGGA	AACTCATCCA	ACAGGATAGT	300
CGTAAACTCA	GCGATAAACG	TTTTTATCGC	CCTACTTTTC	GCATGCACTT	ААСАААТААА	360
GAAATTCTTG	ACAAGATTTT	AAGCTATTCA	GAAGACTTGA	AACACCACTA	TCAGATCTAT	420
CAACTCTTAC	TTTTTCACTT	TCAGAACAAA	GACCCTGAGA	AATTTTTCGG	ACTCATTGAG	480
GACAATCTGA	AGCAGGTTCA	TCCTCTTTTT	CAGACTGTCT	TTAAAACCTT	TCTAAAGAAC	540
AAAGAGAAAA	TCGTCAACGC	CCTTCAACTA	CCCTATTCAA	ACGCCAAATT	GGAAGCGACC	600
AATAATCTCA	TCAAACTTAT	CAAACGCAAT	GCCTTTGGTT	TTCGAAACTT	TGAAAACTTC	660
AAAAAACGGA	TTTTTATCGC	TCTGAACATC	AAAAAAGAAA	GGACGAAATT	TGTCCTTTCT	720
CAAGCTTAGC	TTTTCTTCAA	CCCACTACAG	TTGACAAAGA	GCCTATTTTC	GCTGATTCTC	780
CACTACATTT	GACTGGATTC	TAATTTTTTA	GAGAAATACA	AAAGAGCTAG	CTTTAGCTAG	840
CTCTTTTCCT	ATGCGGAGAG	AGGGACTTGA	ACCCTCACGA	CCTAAAGCGG	TCACAGGATC	.900
CTTAGTCCTG	CGCGTCTGCC	AATTCCGCCA	TCCCCGCGTC	GATTACTTTA	CTAGTATATC	960
AACTTTTGGG	ATGCTTGTCA	ACACTTTTT	TCAAATTTTT	TCATTTTCAC	CAACCAGGTT	1020
ACTCAAAAAG	TTCATTTAGA	TTTTCATCTA	CTAACTTAGC	TCCGAGTGTA	TTTTTGAAAT	1080
GACCTAGGGC	AAATTGATGA	TTTTCAGGCC	AGATGGAAGC	AACAGCTGGT	TTAACAATCT	1140
CGATGTCATA	TCCTAGATTA	TAGGCATCTA	TAGCTGTATG	TAGGACACAG	ATATCCGTCA	1200
AGACACCTGT	TAAGATAACG	GTAGACACTC	TACGCTCTCT	CAAACGAATA	TCTAGGTCAG	1260
TCCCTGAAAA	AGCTGAGTAA	TGGCGTTTAT	CCATCCAAAA	GACACGACTG	TCTGAACCAT	1320
GCTCTTGATA	AAAGATCCCC	AAATCTCCAT	ATAAATTCCG	TCCACTCGTC	CCAATCAGAT	1380

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TATGAGGAGG	AAATAACTTA	CTTTCCGGAT	GGAAACAATC	GTTTTCTTCA	TGAGCATCAA	1440
TAGTAAAGAA	GATATAATCT	CCTCGTTCAA	AAGCTAATCG	AGTTACCTTG	CTGATGGCAT	1500
CCGAAATCGC	CTGAGCTGGA	GCACCTGCTG	TTAGTTTCCC	ACTATCAGCA	ACAAAATCTT	1560
CTGTATAATC	AATCGAAATT	AAAGCCTTTG	TCATTAGTAA	ТСТСТТТТСТ	TCACTTCTTC	1620
AAAAATATCT	GAAATCAAGA	CCTTAAGATA	GGTTCCCTTC	ATTCCAAGTG	AGCGACTTTC	1680
AATAATCCCC	GCAGACTCAA	GTTTACGAAG	AGCATTGACA	ATCACAGAGC	GAGTGATTCC	1740
GATACGATCT	GCAATCACTG	ACGCAGTCAA	CTTCCCTTCA	TTTCCATTTA	ATTCCCCTAA	1800
AATTGCTGAA	ACAGCACGGA	GTTCGGAGTA	AGAAAGGGTA	TTGACCGCCA	TGGTGACAGC	1860
AGTACGACGA	CGAATATTTT	TCTCATCTTC	TTCACGTTGG	AAGTTAAGAA	GCTGAATCCC	1920
AACAACGGTA	CTGGCAATCT	CAACAAGAAC	CAAGTCCTCA	TCTTCGAATT	TTTTATCATT	1980
ACGCCAAATA	ATCAAAGAAC	CAAGGCGAAT	CCCCGATACA	TGAATCGGTG	CAATAGTCGT	2040
CAAGCCATCT	GGAAAATCAT	CTCTACTCTC	AATAGGGAAA	ATACTCATAT	CATGCTCAAC	2100
AGGCAAGTTT	GCTTCTGTTT	CGTAAATCAT	ATTAGCCCCT	TGAACGTAGT	CATCTGGGAA	2160
AATCTTAGTT	TGGAAGAATT	GCTtACGCGA	TCTGTATTTG	TTTTATAACG	CATAAAATAG	2220
CCAAGCAGAC	GTCCCTTACT	ATTGATAATG	CAGGCATTGC	AATGAATAAT	ATCCGCTAAC	2280
TGACGCGTAA	TAGCGTTGTA	AGGGAGCTCA	TCTCG			2315

(2) INFORMATION FOR SEQ ID NO: 195:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 6693 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 195:

CGATTTCTTC CATTTCTCA AATAAGAATA CTTCATCTGA CATATGTGTT ACCTTCTTCA 60

TCAAAAATTA TTTTGTAATC GATTACATTG CAGATCGTAA CATAAAGAAA AACAGATGTC 120

AAATATTAAA CGTAAAAACA TGGTCACTAA AGAACTATAA GAGAAAAGGT AAACCTAGCG 180

ACGCGATGAA CGCTGGGTCG TTTGGTTTCG ATTGCTCTCT TCCTCTTGTT TTTTCTGTTC 240

TTCTTCTTGT TTTTTCTCAG CTTCCTTGGC CTCTTGTTT GCTTTTCCT CAGCTTCCAT 300

AATTAATTTA TCCGCCACAG TGTAGCTGTA GATTCCAGCT TCCATGTCGA CCACACTCGG 360

TTCTGACAAAT TGAGGCTTAA TCTTACTGTA ATATGGCAGT TTCTTACTCA TTTCAGATAG 420

			1164			
AGGAACCAAG	ACTTCGTCCG	AATCATTCAT	GGTCAATCGA	ATTAAATCGG	ATGTCACCTT	480
GCTTGGGGCT	AATTCCACCT	TTTGGATAGC	CGCCTTGAGT	TCTGGGCTAA	TTTGAGCAAG	540
TTCTGAGACA	AAAACTTTGA	TTTGTTCACT	ATCATTAAAG	AGAACTGATA	AATAAGTTTC	600
TGGTAAACTG	TTCAGACTCA	CAGAACTAGT	CTCAAGCTGA	CCACTGGAAA	GAATAGGATA	660
ATGATTTTCA	CCAGAAATAT	AGTAGGCCAC	AATATCATAT	TCCTTGACCT	TAATAGTGAA	720
CTTAGTTGGA	AATTGATAGA	CAAGTTGAGC	TGATTCAACC	CAATAGTTAG	ACTTAATCTG	780
CTTTTCATAT	TTTGCCTTGT	CTAGCAGAAG	GTTAATCGTA	TAATCCGAAT	CCTGAATGCC	840
TGAAGCCTGT	CGAATATCAT	CAGCTGTAGT	TTGCACCGTT	CCCTCAACAC	GAATATCTTT	900
CATGGTCGCA	TAAGGACTGA	GCAAGTAGGC	AGAGACAAAC	AATAGAAGCA	GACTTGGAAA	960
TAAAATCGTG	AAGGCTCGCA	AGATATGGAT	ACCAGGAATC	TTTGCTTTGG	CTGGTTTTTC	1020
CTTTGTAGCC	TTTTTAGCAA	GCTTTTTATC	CTGTTCCTCC	TTCTCTTTAG	ACTCTGGTTC	1080
TTCTTTCTCT	TCTTTCTCTT	TGTCAGCCTC	TGAGGATGCT	ACTTTTTCTT	CAGACTCTTC	1140
CTTAGCTGAT	TCTGAATCTT	CCTGGTCTGT	TTCACTCTCC	TGGTCCTGTT	TATCCTCTGA	1200
CTTCTCAGAT	TCTTCTCCCA	TTCGAGCTTG	TCTTTCCTTT	TCCTTCTCCT	CAGCTAGAGC	1260
CGCCTCTTCT	TCAGCCTTCT	TTTTTAGATA	TTCTTGGTTT	CGTTTCTGCC	ATTCTGATAA	1320
CTCTTTCAAT	TCTTCGAGGG	TTTCTTTGTC	CTCATTTTTC	TTATCTTTTG	ACATTTACTT	1380
TCCTTATGAT	AAATCTTTTT	TCAACAATTG	ATAAAAATCT	GCTAGAGATT	TCAATTCCTT	1440
AGAAGCTTTC	ATCTTAGCTT	GGTAATCTTC	CTTGTGACTT	AGTAAGTGAG	AAAGCTTCTC	1500
ттссаааста	TCCAAGGTCA	AATCGCTTTC	TTGAAGGTCT	TCTGCATAGC	CTTTCTTAAC	1560
AAAGTAAGCT	GCATTTTCAA	TCTGGTCACC	ACGACTAGCT	TCACGACCAA	GCGGCACAAT	1620
GACATGCAAT	TTTGCTATCG	CCAAGAGCTC	AAAAATCGTA	TTGGCACCAC	CTCGTGTCAC	1680
AACAATATCA	GCCAATTCCA	TCAAGGGTTG	ATAGAGATCG	GTCACATAGT	CAACACGAAA	1740
AAGATTTTGC	CTCAACTCAT	TCAGACTAGA	ATCTCCAGTT	AGATTGATAA	TATTGTAGCG	1800
CTCTGTTAGT	TCTTTCTTAT	GGTCTGTCAC	CAATTGGTTA	AAGACACGAG	CGCCTGCAGA	1860
ACCGCCAACA	AACAATACAG	TTGGCAATTT	GGGATTAAAG	TGGGTTTGAA	TATCCACCAA	1920
TTCATCTGGT	TCTGGAGTGT	TTTTGTCCGA	AACCTTGGTC	ACCGCTCCCA	CATGCTCAAC	1980
CTTAGCCAAA	CTCGAAGCTT	GTTCAAAGGT	TGAATACATC	TTAGTCGCAA	ATTTATAGGC	2040
GATTTTATTG	GCCAAGCCCA	TAGACAGGTC	AGATTCGTGA	ATAAAGACAG	GCACTCCTGA	2100
CACACGCGCA	GCGATAACAG	GCGGTACTGA	GACAAAGCCC	CCCTTTGAAA	AAAGGGTCTG	2160
TGGACGCAGT	CGCAACATGA	TAAAGAGCGA	TTGGACAATT	CCCCAACCAA	CTTTGAAGAC	2220

GTCCAGCATA	TTTTGCCAAG	AGAAATAGCG	ACGCAATTTT	CCAGTCGCAA	TAGAATGGAA	2280
GGTGACATCC	AAACCTGACT	TAAGGATTTC	TTGGTGTTCG	ATACCACACT	TGTCCCCGAT	2340
ATAGTGGACT	TCCCAACCAT	CTTCGATGAA	CTTGGGCATT	AACAAAAGAT	TGAGGGTAAC	2400
GTGTCCAACC	GTCCCCCCAC	CTGTAAAGAC	AATTTTTTC	ATATTATTCT	TTTAACTCCG	2460
CTACTGTGTC	GATAAAGAGG	TCGCCACGTA	CTTCAAAGTT	AGCATACATA	TCCCAGCTAG	2520
CATTGGCAGG	ACTAAGAAGA	ACCACATCTC	CTTGAGTCGC	AAGCTCATAG	GCCTTGCGGG	2580
PCGCATCTGC	AATATCTGTC	GCCTCCACAT	AAGCGACACC	AGCCTTGTCT	GCTGCCCGTT	2640
rgacacgttc	TGCAGATTGA	CCCAGGATGA	CCATCTTCTT	GAGTCCAGTA	ATGTCTGGCA	2700
CCAATTCGTC	AAACTCATTG	CCACGGTCCA	AACCACCTGC	AATCAAGACG	ACCTTGCTGT	2760
rgtca aa tcc	TGACAAGGCT	TTTTGAGTAG	CCAAGATATT	AGTTGATTTA	CTGTCGTTAT	2820
AGAATTTAAC	ACCCTTGATG	TCATCCACAA	ACTGGAGACG	GTGTTTGACA	CCACCGAAGG	2880
CTGAAAGAGT	TTCCTTGATG	GTTTGATTGT	CCACATCACG	AAGCTTGGCT	ACAGCAATAG	2940
rcgcaagggc	ATTTTCCACA	TTGTGGCTAC	CTGGAACACC	GATTTCATTC	GCTGCCATGA	3000
CTACTTCACC	ACGGAAGTAG	AGTTGACCAT	CTTCCAGATA	AGCTCCATCA	ACCTTTTCAA	3060
TGTTGAAAA	TGGTACAACA	GTGGCTTCTG	TCTTGGAAGT	CAAGTCTTTT	GCCAAGTCTT	3120
ЭАТТААА СТТ	CAAGACAAGG	AAATCAGCTG	CTGTCATCTT	GTTCTGGATA	TTCCACTTGG	3180
CTGCTACATA	TTCCGAAAAT	GACCCATGGT	AGTCGATATG	AGTTGGCATG	AGGTTGGTAA	3240
PAACCGCAAT	CTCTGGATGG	AATTCTTGAA	CACCCATGAG	TTGGAAAGAA	GAAAGTTCCA	3300
PAACAAGCGT	GTCCTTATCT	GATGCTATTT	GAGCAACCTG	ACTAGCTGGA	TAGCCGATAT	3360
CCCTGATAA	AAGACCATGT	TGGCCAGCAG	CAGTCAAAAC	TTCCCCAATC	ATAGTCGTTG	3420
rggttgtctt	ACCGTTCGAT	CCTGTGATAC	CAATAATCGG	TGCTTCTGAA	ATCAAATAAG	3480
CAATTCCAC	CTCAGTCAAG	ACTGGAATTC	CCTTGGCCAA	AGCCTTTTCA	ATCATGGGAT	3540
rgttgtaggg	GATACCTGGA	TTTTTCACCA	TAAGGCAAA	CTCTTCATCC	AAGAGTTCCA	3600
AAGGATGGCC	ACCTGTAATG	ACCTTGATCC	CTTCTTCCAG	CAAACTTTGG	GCAGCTGGAT	3660
TGTCCTCGAA	AGGTTTCCCA	TCATTTACTG	TCACAATGGC	ACCTAGCTTG	TCCAACAAAC	3720
GAGCTGCAGA	TTCACCAGAC	TTGGCCAAAC	CTAAAACAAG	GACTTTCTTA	TTTTTAAATT	3780
CATCTATTAC	TTTCATGTCT	CGAACTCCAT	TTCTACTCCT	ACTATTTTAC	CATTTTTATG	3840
AAAATAAA	AGCCACAAAG	TGTGTTTGTG	ACTCTTTCTT	CTAACTGAAT	CTTACCATAT	3900
CATCTATGTG	ATAAATCGGT	AACTCGAATG	ACCTGATCCA	CTTGCTCCCA	AATCAGAGGA	3960

			1166			
TTATGGGTCG	СААТААТААТ	GGTCCGATTC	GGATTTTTTA	AAGATTCTAG	GATGGAAAGT	402
AATTCCTCAG	AGTTTTTGGG	GTCTAAGGAA	GCGGTTGGTT	CATCTGCGAG	GATCAAAGGT	408
GGATCCTTTA	AAATTATCTT	CGCTAGTGCA	ACACGTTGTG	CTTCTCCTCC	TGATAACTCA	414
AATATAGGTT	GCTTCAAATC	CAAATAAGAG	AGGTTTACAC	GGTTTAGAGC	TTGTTTCATC	420
AAAGAGATTT	TCTCTTTTTC	CTTCAACTTT	TTACCAACTA	AACCCAGATT	GAGATTCTCT	426
TTGACGGTTT	GGCTTTCAAT	TAAGCCAAAA	TCTTGAAATA	AGTATCCTAA	GTAATCTCTA	432
AAGAAAACAG	AAGGCTTGAT	GTCCTTAAGA	GAAGTGCCAT	CATAGATGAT	TTGCCCTTTG	438
TCATATGGCT	CCAATCGTCC	AATCATATTC	AAGAGTGTTG	TCTTACCACA	GCCACTTGTA	444
CCGATTAAGG	CATAAATTTT	CCCACCTTCA	AAATGAAGAT	TCATATCTGA	AAATAGCTGA	450
CGGCTTCCAA	ATTTTTTAGA	TATATTCTTT	AGTTCAATCA	TCCTATTTTC	CTTTCATAAT	456
TGTCATAGAA	ACACGAGATT	CTTTCTGCGC	TTGACGGTAA	AGCGTCAAAA	CTGCACTAGC	462
TAGAAAGACC	AATAAAGTGA	GCAAGCCAAT	CACCAAGTCT	CGACTGCTTA	AAATAAAGAG	468
ACTAGCACCA	AATACAAAAC	TAGCAAATTG	GCTAACCATA	TACTGAGCAT	GTGTTTCAAA	474
AAATCGTAAA	CCTGAAATTC	GTTTAATCAA	GATATCTCGG	CGGAATTGCT	CGAAATATAG	480
AAGATTGACA	GAATAAAAGA	GTAACAAGGA	ACTGGCTATT	CCAACAATAG	CTCCTAAGAT	486
TAAAGTTGCT	GTTTCAGTTT	GAACTTCATT	ATAACGAGTT	AGATAAACAC	TTCTTCCTTC	492
TTTAAGATAG	GATACTTGCT	CATAAATTCC	AGCTTTCTTC	AAGAGTTCTA	GCCCACTCTC	498
ATATCCTTTG	ATAAAGAGTT	GTTTTCCAGC	ATTGATAGAC	CAACTAGATA	AGGATATAAA	504
ACTATCACCT	GTAGAAGTCG	GCGTGAATAC	CACTAAAATC	GGATCAGTCA	AATACTGAGT	510
AGATACGGGA	TTCTCACCGT	TATTATAAAC	AAACCGCTTT	TCTCCCATTG	AAAGATAACT	516
AACGTGCGCT	TTCATCTCAT	AATCCAAAGG	AGCACTTGCC	TCCTCACCAG	ATTTTCCATA	522
АТААСТСААТ	CTTTCTTCAA	AAACTTTCTT	AAGTTCTGCT	TCTCGAGAGC	GCAAATGTTC	528
TGGGAGCAAG	AGGATAAACT	CACCTTTTTG	GAGATGGGCT	AACTTCTGTT	TGGTCTCAGC	5340
ATCTACCACG	ACCTTTTCCT	TGTCCAAATA	ACTGGGACTA	ACATAGAGCG	TATTAGCATC	5400
TGAACTATAG	GTATCCAGTG	TCTCTCCCTG	TTCATTTTTT	CCTTGTGGAT	TGGCAAAATG	5460
GAGCAGATTA	TCCTTTACAT	AAAGAGCTTG	TTCTTCTTCG	ATTGCTTCCT	TGGCAAAGGC	5520
ATACCACTTG	CTCTGATTTT	CTGTATCTTT	TCCTCTATCA	CCTAAGCCAA	AGGAAATCTG	5586
GTAATAGTCT	GCTCTGTCCT	GCCATGCTTG	TTTTGAAATT	TCAAGTTCTT	TCAATCGTTG	5640
GTAAGACGTC	AAACCTGTCT	TAACAGCGTA	GCCTACTGTA	AAAACAGCTA	CTAACTGACA	5700
CAATAGGGTT	AAAGCCATCA	AGCGTTTAAG	GGGTAATCTT	СССТТАВТАВ	CGGGAACTAA	5760

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TGCTTTGT	AA CTCAAACTCA	TTAGGTAAAG	GAGCATTAGT	AAAATTGAAA	TCGCCAATAA	5820
AAACAACA	ЭА ТАGAAAСТАА	TCCCAAAACC	ATAGGTGGCT	AACAAGATAG	GATAAAACAA	5880
ACCTTGACT	TA AAAAGAACGA	CTCCCCCACC	TAGGAAGGAA	AGGAGGGCTG	ATAGAAGGAG	5940
CCATTTGAT	TA TCAGTAGATA	AAGAATGCCC	CATGATGGAT	AAGAGAGTCT	GACCAGAAAA	6000
GAGTTTTAT	TA CCTGCTGCTC	TCATTTCCTT	AATCCGAGTG	ATAATCACTA	AAGCAAAGAA	6060
AGATAAGC	CA AATATTGCTA	ААСТААТТАА	AATAAGGGGA	TTTAGTAATA	TTCGAAAAGC	6120
AAGAAAAT	AG GGCGGTATCT	TTCGGTCAGC	ACTTGCTTTA	ТААСССАААТ	СТССТААТТТ	6180
ATCGGCAAC	C TTTTCTTTCG	TCAAGGAGCC	TGACAAAAGG	AGATAACTAT	TTAGCGGAnT	6240
Atacgttc	AC GACTTTCTTG	GCTAGCTTCT	TGGAATTCTT	TTGGTAAAGT	TCCCTGACCA	6300
TAAGTTGC	AT AAGTAAAGTG	AGTCGTCCCA	TCCTTACTCG	GCTCTACAAT	TCTTCTAGCT	6360
ATTAAACTO	CT GTTCTGAGTT	TGCAAAATTC	TCCAATTCCT	GTTCAAATAC	CTCACGCGTC	6420
GGTTCCTG#	AG TATCTTTTT	GACACGAAGT	AAAGAAACGG	AATCATAGCT	TGCATATAAA	6480
TATTGTGG	G CACGTAAGAC	AATAATCCAA	GCAAGGAAGA	AGCTGAGAAA	AAAAGTTGAT	6540
AATAATATO	GA ATAGTTTCTT	CATAGTAGAC	TCCTTGTAAA	CAAAATTCCC	CCTGTAATTT	6600
CTTACAAGO	G GAACGATTTA	AATCAATGAA	CGATTAGTCA	TAATCACAGT	AAAATGCTAC	6660
TTGTTCTCC	CC CATTTAGTCC	AAATCCATGC	AGG			6693

(2) INFORMATION FOR SEQ ID NO: 196:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1847 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 196:

CCGGTCTATG	TACCCACTAC	TTTGGGACAA	TATGGGGATC	AGCTACCCAA	AACTAATCGA	60
GCGTTTGGTT	GACCTTGCCA	AGGAAAGTTT	TGACAAGCGC	GACGATTTGA	TATAAAATGA	120
AAGAGAGGGT	AGAAGCCAGA	ACCATCACTG	CACGGTGACT	AGAGTTCTCG	GACTTCAGCC	180
CTTTTTAAAG	GAGTAGAAAT	GAAATTAACA	ATCCATGAAA	TTGCCCAAGT	TGTTGGAGCC	240
AAAAATGATA	TCAGTATCTT	TGAGGACACC	CAGTTAGAAA	AAGCTGAGTT	TGATAGTCGT	300
TTGATTGGAA	CTGGAGATTT	ATTTGTGCCA	CTTAAAGGTG	CGCGTGATGG	CCATGACTTT	360
ATTGAAACAG	CCTTTGAAAA	TGGTGCAGCA	GTAACCTTGT	CTGAGAAAGA	GGTCTCAAAT	420

	•		1168			
CATCCTTACA	TTCTAGTAGA	TGATGTTTTG	ACAGCCTTTC	AATCCTTAGC	ATCCTACTAT	480
CTTGAAAAAA	CGACTGTTGA	TGTCTTTGCT	GTTACAGGTT	CAAATGGCAA	GACAACGACT	540
AAGGATATGT	TGGCGCATTT	ACTGTCAACA	AGATACAAGA	CCTACAAAAC	ACAAGGCAAT	600
TACAATAATG	AGATTGGCCT	TCCTTACACA	GTTCTTCATA	TGCCTGAAGG	AACAGAAAAG	660
TTGGTTTTGG	AGATGGGACA	GGATCACTTG	GGCGATATTC	ATCTCTTGTC	TGAATTGGCT	720
CGTCCAAAAA	CAGCCATCGT	GACCTTGGTT	GGAGAAGCCC	ATTTGGCCTT	TTTCAAAGAC	780
CGTTCAGAGA	TTGCTAAGGG	AAAAATGCAA	ATTGCAGACG	GAATGGCTTC	AGGTTCCTTG	840
CTTTTAGCGC	CGGCTGACCC	TATCGTAGAG	GACTATTTGC	CAACTGATAA	AAAGGTGGTT	900
CGTTTTGGGC	AAGGGGCAGA	GCTGGAAATT	ACTGACTTGG	TTGAGCGCAA	AGATAGTCTG	960
ACCTTCAAGG	CCAATTTCTT	AGAGCAAGCC	CTTGATTTGC	CAGTAACTGG	CAAGTACAAT	1020
GCGACAAATG	CTATGATTGC	ATCCTATGTT	GCCTTGCAAG	AAGGAGTTTC	AGAGGAGCAA	1080
ATTCGTTTGG	CCTTCCAAGA	TCTTGAATTG	ACGCGTAACC	GTACCGAGTG	GAAGAAAGCA	1140
GCCAATGGAG	CAGATATCCT	GTCAGATGTT	TACAATGCCA	ATCCAACTGC	TATGAAACTG	1200
ATTTTAGAGA	CTTTCTCTGC	CATTCCAGCC	AATGAAGGTG	GCAAGAAAAT	TGCAGTGTTG	1260
	AGGAGCTTGG			-		1320
	ATGTGCTTGA					1380
	GTCAAATGTT					1440
	TTGAAGACCT					1500
	AAGGCTCTAA					1560
	GATTTTGTCA					
						1620
	AAAGATCCGT					1680
	AATCAAGCAT					1740
	TATGCGACTC				AGGATGAGAA	1800
GATTTGTCTG	GTTAGGGGAC	AAGGAGAGGA	TAGTTGGGCT	TTGCCGG		1847

(2) INFORMATION FOR SEQ ID NO: 197:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1062 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 197:

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CAAGCGAAAA	CATTTTTTAT	тссааатааа	CAGAGCATTT	TAGGAGAACA	AGAGATTTTG	60
AATGCCAAGT	CGATCTTGGC	CTTGCTAGAC	GGTTTGGAGT	CACATAGCTA	TGATGTAGTC	120
TATCTCCGTC	AGCCTCTTAA	TCGTCTCGAA	TATATCGAGT	GTGCGATAGT	GGGGCAATCA	180
CAATTTCTCT	TTAAGGTCAG	TTATGCTGAT	GGTCAAAAGG	CTTACCGTGT	CGATCTTCCT	240
GACCTACTAA	CAAAGACAGA	CTGGCAGATT	ATCAAGTCAT	TTTTAGATGC	TTTGCTTGCT	300
TATACAGGGA	CTGATATTGA	AGGGCTAGAT	GGTTTTGATT	TTGAAGCTTA	TTTCCAAGCA	360
AGTATTCAAG	CCTATCTAGC	AGACCCTGTA	GCTCGTTTTA	CGATTTGCCA	AGGAATTTTT	420
AATCCTATTT	TCTTTAGTCG	TGAGAACTTG	AAAAGCTTTT	TAGAGGCAGA	TGGCTTGGCT	480
CAGTTTGAAG	CGCGTGTGCG	TGCGGTTCAA	GAGACAGATG	CCTACTTTGC	GAGAGTTTCC	540
TTCTATCAGG	ATGGAGAAGG	AAAAGTGCAT	GGCGTTTACC	ATCTAGCTCA	AGGAGTCAAG	600
ACAGTTTTAC	CGAGAGAACC	GTTTGTTCCT	GCAGCCTATA	TTGAGCAATT	GGTGGATAAG	660
GAAGTCCAGT	GGGAGATTGA	CTTGGTTCAA	ATCACAGGAG	ATGGCTCTAA	ACCAGAAGAC	720
TATGAAGCCA	TTGCTCGCTT	GGACTATGCA	AAATTCTTAG	AGGTATTACC	CCCATCTTTT	780
TACCACCAAC	TAGACGCCAA	TCAAATAGAA	GTGCAACCCA	TATTAGACAA	AGATTTTAAA	840
ACATTAGCAC	AAGAAAAGTA	AAGCAGAAGC	AGGTCAATCG	ACTTGCTTTT	TTGACATAGA	900
ааааатсстб	CCAAGaTGAC	AGGATTGCTA	CTCAATGAAA	ATCAAAGAGC	AAACTAGGAA	960
GCTAGCCGCA	GCTGTACTTG	AGTACGGTAA	GGCGAAGCTG	ACGTGGTTTG	AATTTGATTT	1020
TTGAAGAGTA	TGAAGTTTAA	AGAAAAGCCA	AGATACGAAG	AT		1062

(2) INFORMATION FOR SEQ ID NO: 198:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 6846 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 198:

TATCTACAAC CTCAAAAACA TGTTTTGAWG GCTCGTCAGT CTATCTACAA CCTCAAAAAC 60
ATGTTTTGAA KGCLCGTCAG LTCTATCTAC AACCTCAAAA ACATGTTTTG ACAGCCTCGT 120
CAGTTCTATC TACAACCTCA AAAACATGTT TTGAGCTGAC TTCGTTAGTT TCATCTACAA 180
CCTCAAAAAAC ATGTTTTGAG CTGACTTCGT TAGTTTCATC TACAACCTCA AAAACATGTT 240
TTGangnCnt CGTCAGTTCT ATCTGCAACC TCAAAGCAGT GCTTTGAGGC CTTCGTCAGT 300

TCTATCTACA	ACCTCAAAAC	AGTGTGTTGC	1170 GCAGCCTTTA	ATCAGCCGCC	TAGTCCGCTC	360
TATGGTATTC	ATTAAGTCAA	CATCTCTTGT	TTAAGAGCAC	CAAATCAGGA	AATCTTCTCG	420
ATTCCCTGAT	TTTTTCTATT	TACGTTTTCG	TGTTGAGCTA	CGTTCTGTCA	AACCATGAGG	480
TAAGAGAACT	TCACGTTCTT	CCAACTCTTC	CTTATGCATA	ATCTTGGTCA	ACATACGCAT	540
ACTAATGGCA	CCAAGGTCAT	AAAGAGGTTG	GGCAATCGTT	GTCAAGTTTG	GACGGGTAAA	600
GCGTGAGATT	TGTGAATCAT	CACTAGTAAT	AATTTCAAAA	TCTTCTGGCA	CAGAAACACC	660
CTTATCAGCC	AAACCGTTCA	AGACTCCTGC	TGCCAACTCA	TCACCTGTCA	CAACTGCTGC	720
AGTTGCATTT	GATGAAATCA	AACGCTCTGC	TAAGGCGTAA	CCATCATCAT	AGCTATATTT	780
AGATTCAAAT	ACCAAACCCT	CACTATAAGT	GATTCCTGCT	TTTTTCAAGG	TTTCCTTGTA	840
GCCAACTAAA	CGAACCTTAC	CATTGATGTC	ATCCACTAGC	GGACCGCTAA	CGAAAGCAAT	900
ACGCTCATTT	TCTTTAGCAA	GGTAACTCAC	TGCATCAATT	GTTGCTTGCT	TATAGTCAAT	960
ATTGACACTT	GGCAACTGGT	GCTCAACATC	GACAGTTCCT	GCGAGAACAA	TCGGAGTACG	1020
TGAACGCGAA	AATTCTGAGC	GAATTTTATC	TGTCAAGTGA	TACCCCATAT	AGATAATGCC	1080
ATCTACCTGC	TTTGAAAAGA	GGGTATTGAC	AACAGAAACT	TCTTTCTCGT	TATCTTCATC	1140
GCTATTAGCT	AGGACAATAT	TGTACTTGTA	CATTTCTGCA	ATATCATCAA	TCCCCTTAGC	1200
CAAACTCGAA	AAATAACCAT	TGGTAATATT	TGGAATCACG	ACACCGACAG	TGGTTGTCTT	1260
TTTACTTGCA	AGACCACGCG	CAACTGCATT	TGGACGATAA	TCCAAACGAT	CAATTACCTC	1320
TAGCACTTTT	TTACGGGTAT	TCTCTTTTAC	ATTTTTATTG	CCATTGACCA	CACGGCTGAC	. 1380
CGTCGCCATG	GAAACACCTG	CTTCACGAGC	GACATCATAA	ATGGTTACTG	TATCATCTGC	1440
ATTCATTCCT	TTTCCTGTCC	TTTCTATCTC	ACACATTCTT	TTACAAGTAG	AGGTACTGAT	1500
TGAAGCTCTA	TATCTACTTA	CAAAAGTGAA	GATGTGAAAA	TTTCGTTTTC	ATATTTCTAC	1560
TTATTCCATT	CTATCACTAA	TTGTAAACAC	TTTCAAGTGT	TTTTTGAAGA	TTGATTGAAA	1620
AAATTTCATA	GAAAACCTAG	GTTTAGCTCC	TTGCTACCAC	CTTAGACTAA	ACAAAAAGGA	1680
GGAAACTAAG	CCCTCCTAAA	GTTATAGTAA	AATGAAATAA	GAACAGGATA	AATCGATCAG	1740
GACAGTCAAA	TCGATTTCTA	ACAATGTTTT	AGAAGTAGAG	GTGTACTATT	CTAGTTTCAA	1800
TCTACTATAG	GTATTGTTCC	ATTCACTACC	GTCAATTTTA	GCACATAGTC	TTCATGAAAA	1860
TATTATATCA	TCATAACCAA	CCAGATTCTT	TCGCGATATT	AGCTGCCTCT	GTTCGATTAC	1920
CTGCATCTAG	TTTCGAAAGA	ATATTGGTGA	CATAGTTTCG	GACTGTTCCG	TTGGATAGAT	1980
AAAGTTTGTC	TGCAATTTCT	TGGTTAGAGA	AGCCCTGAGC	AATTCCCTTT	AAAACTGCGA	2040
TTTCTTGCTC	CGTTAATGGA	TTGGGATGCA	TCATCACCAC	TTCCATCAAT	TCAGGCGAAT	2100

ACTCCTTGCG	TCCTTCGAGG	ACGGTGTGCA	AGGTTTGCAT	GAGGTCTGCA	ATGTTTCTTT	2160
CTTTTAATAC	ATAAGCATCT	ACTCCAGCCT	TGACCGCACG	TTCAAAATAC	CCAGGACGCT	2220
rgaaggtcgt	CACCACAACC	ACCTTTGTTT	CAAGCTTTTC	TGCTCGTATC	CACTCCAAGA	2280
CTTCAAGACC	TGTCTTAACA	GGCATTTCTA	CGTCAAGGAT	GGCGATATCT	ACAGACTCCT	2340
rttctaatag	TTGGATTGCT	TCTTGCCCAT	TCTTGGCTTG	AAAGACAGAC	TCTACATCCG	2400
GTTGAAGCAT	GAGCAACTGG	CACATGGCAT	CTCGCAACAT	ACTTTGATCT	TCTGCGACTA	2460
ATACTTTCAT	CTACTTTCTC	TCCTTATAAA	GTAGTCGAAC	CTGCACTTCA	GTTGGATGTT	2520
CTGACTGAT	TACACTTACT	TCTCCTGAAA	ATGGAAAAAC	ACGATTTCGG	ACTGTATGGA	2580
GCTCATCCCC	GCTTATAGAG	GCAAAGCCAC	AGCCATCATC	TCTCACTGTT	AGAATGAGTT	2640
CTTTCTCTGT	CCGTTCTAAT	TTCAAGTAGA	CTTTAGACGC	TTTAGCATGT	TTGATGATAT	2700
rggtcactaa	TTCAAGCAAA	ATCATGGAAG	CCGTTGACTC	CAATTCCTGA	GTTAAGCTAG	2760
ACTTGTCCAA	GTGATTCTCA	ACTTGAACCT	CAATTCCAGC	AATTTCTAAC	ATCTTTTTCA	2820
CAGTCTCTAG	TTCGGATGTC	AAAGTTCTAG	ACTTAAGATT	TTCCACAATG	GTTCGCACTT	2880
CATTCATGGA	tCCTTGCTGA	TCTGGTGAAT	TTCTTTTAAT	TCCTTTTCCA	CCTGTGGATA	2940
AGCCTCCATC	TGAAATAACT	GCAAGGCTAA	ATCTGTCTTG	ACACTCAGCA	TAGCAAAGGT	3000
ATGTCCCAGA	CTATCATGCA	AATCCTGACC	GATACGACTA	CGTTCATTTT	CAGCAAGCAA	3060
PAGATTTATC	TGAGCATTTT	GCTTGACCTG	AGCTTCTTTC	AAATCCTCGA	CAATACGAAT	3120
CGAACCAAT	CCAAAAGTCA	TTAAATCGAC	AAAAGTAAGA	ATTACAAGTA	GATAGAATAG	3180
VAACTCAACT	TCGATTCTCT	GAAAAATCAA	CAGTTGCCCC	ACAACAAGGA	CTTGAGCAAG	3240
AGAAAAGTC	CAGACATGTA	AAGACTTTAA	ACTACGTACG	CTGAAATGAT	AACTTAAGAG	3300
ATTGGATAGG	AAAAAGAAAA	ACCAGATATA	ATTAACAGCA	ACAAAGGCAG	TATTCCCAAC	3360
PACATAAGTC	AGCATGAGGC	CCCAATATAG	CCAAGATAGG	CGCTGGCTCT	TAGTTGTTAA	3420
ACACCCAAA	TATGCCACTA	CAAATAGAAT	ATCAATCAAT	AAATGCCAGG	CAGAAAGCCA	3480
CCAGTCACT	ACAGACAGGA	TGGGGAAAAT	CATAAAAATT	AAACTGATCC	AAAACATATA	3540
TGTATTCTT	TTCAGTCTTT	CAAGCATTAA	GCATTCTCCT	TATGACCTTG	AAGGTAAATG	3600
TCAAACCAA	ACAAAACTAC	TGAAAAAACA	AGTAAATAAA	CTGTGGCTGA	TAGATTGATG	3660
CACCCTCAT	TTAAGAAGGT	CTTGAGCAAC	TCCATCAACT	GATAGGTCGG	GAGACACTTA	3720
CTACTACTT	GCATCCAGTC	TGGAAATAAA	GAGATAGGCA	TCCAGAGTCC	ACCTAAAACA	3780
CCAACCCTA	GATAAAGAAG	ATTGCCCACG	ACAGACATCA	ACTGACTAGT	TGGTAAGAGA	3840

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GTCAAGGTCA	AACCAAGCGC	TACGAAGGCA	ATACTTCCTA	CTATCAGCAA	AAGTGCAGCC	3900
CCAATCCAAT	TTCCAAGAGA	CATGTCCACA	CCTCTTACAA	AATGCCCAAC	TGAGAAAACC	3960
ACCAAGATTG	AAACCAAATA	ATCAACCAGC	ATACTTGTTA	TCTTTGATAG	ATAATATTCT	4020
ACCATATTTA	CAGGGCTATG	ACGCAATGTT	TTCTGCCAGT	TGTTGATCTT	GTCGGTATGT	4080
AAAACAACTG	GGAATGAGAA	GATAGCTGTT	GACATCATGG	AAAATGCAGT	CATGGAGATA	4140
AGATAATCAC	GCATAAAATT	CGCGAGTTCA	CCTGGTGTGT	CCTGATAGAT	ACCAGAAAAA	4200
AATAAATAGA	AAGCCGTCGG	CATCCCTACT	GACAATAGAT	AATAGATCAA	TTGTCGTTTG	4260
GTCAATAAAA	ATTCTATCTT	ACTAAGTGCT	AGCCATCGTT	TCATCTTAGT	TATCTCCCTT	4320
CTGCGTTTCT	TCAAAGATTG	TATCCAACAA	ACTACGATTA	TTAACTTCAA	TTTCTTGTAT	4380
GCCACATCCT	GCTTGAACTA	ACAGTTCCCA	AAAAGCATCT	GCTTCGCGTG	TGACTACTTG	4440
TAGAGCATCC	TGTTTTTGTG	ACCAGTTTTC	AACCAAGTTA	GACTGCTCAA	TGACTTCCTT	4500
GTATGCCAGA	GGAAGGATAA	AATGCTTTTC	AATTCCCTCA	CTACGCATAG	CTAGAGGCGT	4560
CGTATCACGA	ATCAACTCTC	CCTTATTTAA	AACCAAAATC	CGGTCAGCCG	TATGCTCTAC	4620
CTCTTCAATA	TAATGAGACG	AATAGAGAAT	CGTGACTCCT	TGCGCTTTTA	GGTCCCGAAC	4680
GATTTCCCAA	AAGCGTTGAC	GAGTTGAAGT	ATCCATGGCA	GCAGTTGGTT	САТСТААААА	.4740
GACAAGCTTT	GGTCGCCCAA	TCAAGGTCAA	GACAAAAGAG	AAGAGACGCT	TTTGCCCGCC	4800
TGACAATTTT	TCTGCGAATT	GCTCTTTTTG	TTGCTGGTCA	AACTGCAATA	GTTGATCGAT	4860
TTCCTGATCG	CTCAAGGAAT	TTGGATAGAT	ACGTTGAAAG	AAAGCAATCA	ACTCTTTGAC	4920
CTTTAATTTC	TGAACGATGA	CATTTTCTTG	AGGCAGATAA	CCTCTAATAT	AGTCTAACTG	4980
AGAACTCGTC	ACTGACAAGC	CTTGGATGGA	TACTTGACCG	CTTGTGACCA	GTTTATCTCC	5040
AAGCAGACAG	TCCAAGAGTG	TGGTCTTCCC	AGCACCATTG	GGCCCAATCA	AGGCGACGCA	5100
TTCACCTTCA	GCTACCTCAA	AGGAAATACC	СТТСААААТА	GCCTTGCCCT	TGATGTTTTT	5160
ATTTAGGCTT	TCTACCTTAA	TCATATTCAT	GATATTCTCC	TTTCAACCAC	TCCATTCTCA	5220
TAAGGAAAAC	GACGAAAATC	ATAAATCCAA	ACCCCAAAGC	ACCACGAATG	AATTGGCGAA	5280
gCAAGGTTTG	GTCAAACCAA	CCTGTAAACA	TTTCCACTAA	CCATACCAAG	AGTGACAGGC	5340
CGATAAAGAA	ATAGATGATC	CCTCTCTTCA	TTCCTCAAGC	TCCTTTTTCA	CATCTCCGAC	5400
ТААТТТСААА	CCTTCTCTAA	CAAGCCAAGA	CATCATTCCA	AAGCCAGCAA	AGAGCTCCCA	5460
AGGAAAATGA	TAGAAACTCT	CATCCAATCC	CGAAAACATG	AGTTAGGTCA	TAACTCCTGC	5520
TACTACTAAA	CTCACTGCGA	TAATCATTTT	ATTTCTCATC	TCTTCTTCCT	CCATTTCATA	5580
CTACAATTAT	AGTCTTTTGA	AATCAGAGGA	GACAGAAGCT	TCTGTCACTA	GAAAATATGA	5640

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PCT/US97/19588

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CAAATGTCAT	AAAAAATTCT	GTTCAAAACA	AGCAAGATAC	ACTATACAAT	AAAACACAAT	5700
TAGAAAAATC	TAAGGCAACT	TCCTCAAAAG	AGATATCAAA	CCCAATTCAC	ACCATAATGT	5760
AAACTAATAC	TTATTTAAAA	TCAAAAAGAG	TAGAAATTTT	TATCAGACAA	ACACATATAT	5820
AGTGTATTGA	ATCTATAACA	GTAGGCCTTA	AATACTAAAA	ТАТТТСТАТА	AATTAATTTA	5880
ACTTTCCTGA	TAGAGCTGTT	CATATCTTAT	TTCAATTCTC	TAAATTATAC	GTTGAACAAA	5940
ACCCTTCTAT	TTCTTTCTTA	AAGATTTATA	AGAGTTATAA	AATCTGTTAA	ATTTCAATGT	6000
GTATACCTAA	ACTACGGTAT	TTATTGAAAA	GACTGGAGAC	AAAAAGTATA	CGCTGCCAAA	6060
ATGAATTACT	GAAAATCAAA	AAAGAGAGAA	CCAAACTGAT	ТСССТСТТАА	ТСТАТАТААТ	6120
ATCTAGTTTT	AAAAATACAC	ACTCACATAT	CTCTGTAATG	AATCGGGAAG	ACAGGATTCG	6180
AACCTGCGAC	ACCTTGGTCC	CAAACCAAGC	ACTCTACCAA	GCTGAGCTAC	TTCCCGAGTT	6240
AAATAGAAAA	ATGCACCCTA	GAGGAGTCGA	ACCTCTAACC	GCCTGATTCG	TAGTCAGGTA	6300
CTCTATCCAG	TTGAGCTAAG	GGTGCTCCAT	ATTATGCCGA	GGACCGGAAT	CGAACCGGTA	6360
CGATCGTTAC	CAATCGCAGG	ATTTTAAGTC	CTGTGCGTCT	GCCAGTTCCG	CCACCCCGGC	6420
CTCTCTAAGC	GAACGACGGG	ATTCGAACCC	GCGACCCCCA	CCTTGGCAAG	GTGGTGTTCT	6480
ACCACTGAAC	TACGTTCGCA	CTGTTTTCTT	CTATCTAAAA	ATGCCGGCTA	CATGACTTGA	6540
ACACGCGACC	CTCTGATTAC	AAATCAGATG	CTCTACCAAC	TGAGCTAAGC	CGGCTCATTT	6600
GTTATATCTT	AATGCGGGTT	AAGGGACTTG	AACCCCCACG	CCGTTAAGCG	CCAGATCCTA	6660
AATCTGGTGC	GTCTGCCAAT	TCCGCCAAAC	CCGCATATAT	GACCCGTACT	GGGCTCGAAC	6720
CAGTGACCCA	TTGATTAAAA	GTCAATTGCT	CTACCAACTG	AGCTAACGAG	ТСТААААТАА	6780
CTTGCGTTAC	CTTAAACGGT	CCCGACGGGA	ATCGAACCCG	CGATCTcGCC	GTGACAAGGC	6840
GACGTG						6846

(2) INFORMATION FOR SEQ ID NO: 199:

- (i) SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 2911 base pairs

 (B) TYPE: nucleic acid

 (C) STRANDEDNESS: double

 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 199:

GAATTCATTT TAAATAAAGA TACGGGAGAG GTAAGTGAAT TAAAACCTCA TAGGGTAACT 60 GTGACCATTC AAAATGGAAA AGAAATGAGT TCAACGATAG TGTCGGAAGA AGATTTTATT

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TTACCTGTTT	ATAAGGGTGA	ATTAGAAAAA	GGATACCAAT	TTGATGGTTG	GGAAATTTCT	180
GGTTTCGAAG	GTAAAAAAGA	CGCTGGCTAT	GTTATTAATC	TATCAAAAGA	TACCTTTATA	240
AAACCTGTAT	TCAAGAAAAT	AGAGGAGAAA	AAGGAGGAAG	AAAATAAACC	TACTTTTGAT	300
GTATCGAAAA	AGAAAGATAA	CCCACAAGTA	AACCATAGTC	AATTAAATGA	AAGTCACAGA	360
AAAGAGGATT	TACAAAGAGA	AGAGCATTCA	CAAAAATCTG	ATTCAACTAA	GGATGTTACA	420
GCTACAGTTC	TTGATAAAA	CAATATCAGT	AGTAAATCAA	СТАСТААСАА	TCCTAATAAG	480
TTGCCAAAAA	CTGGAACAGC	AAGCGGAGCC	CAGACACTAT	TAGCTGCCGG	AATAATGTTT	540
ATAGTAGGAA	TTTTTCTTGG	ATTGAAGAAA	AAAAATCAAG	ATTAAGATAA	AAGCTATAGA	600
AAAAAATGGT	TTATGTACTG	AGATTAGATA	GTGAGGTGAT	GACATAGTTT	TGTGAAAATA	660
GCCATTTATA	ACTCAATTAT	TTAGTTTACT	TTACTTTACT	AGTGATACTA	TTTGGAGTTA	720
TTAATGGACT	TAGTTTATAT	AACTAATGAA	TTGATTGAAA	GGGTTAGTAT	TGACAATATT	780
GGTCATATTG	ACTAGAAAAT	AGAGTCTATC	AAAATTTAAA	GGCTAATAGA	GGTGATGAGA	840
CAATTTCGGC	TCTTTGTCAA	CTGTAGTGGG	TTGAAGTCAG	CTAAGCTCGA	GAAAGGACAA	900
ATTTTGTCCT	TTCTTTTTTG	ATATTCAGAG	CGATAAAAAT	CCGTTTTTTG	AAGTTTTCAA	960
AGTTTCGAAA	ACCAAAGGCA	TTGCGCTTGA	TAAGTTTGAT	GAGATTATTG	GTCGCTTCCA	1020
GTTTGGCATT	AGAATAGTGT	AGTTGAAGGG	CATTGACAAT	CTTCTCTTTA	TCTTTGAGGA	1080
AGGTTTTAGA	GGATGAACTT	GATTCAGATT	GTCCTCAATG	AGTCCGAAAA	ATTTGTCAGG	1140
CTCCTTATTC	TGAAAGTGAA	AAAGCAAGAG	TTGATAGAGA	TTATAGTGGT	GTTTCAAGTC	1200
TTCTGAATAG	CTCAAAAGTT	TATCTATAGT	AGATTGAAAC	TAGAATAGTA	CACCTCTGCT	1260
TCTAAAACAT	TGTTAGAAAT	CGATTTGACT	GTCCTGAATG	ATTTGTCCTG	TTATTATTTC	1320
ATTTTACTAT	AAATCCACGT	TTACGAATCT	CTTTCCACAC	TTGTTCAATG	GGGTTCATCT	1380
CTGGTGTGTA	TGGAGGAATA	AATGCAAAAC	CAATATTAGT	CGGAATCTTT	AAGGTACTTG	1440
ATTTATGCCA	TATAGCATTG	TCCATAACGA	GTAAAAGATA	ATCATCTGGA	TAAGCTTGTG	1500
AAAGCTCCTA	TTCCTAAAGC	CCCTTTATAA	CCTCTTGCGA	GAGAGACTAT	TGACTCAGCC	1560
CTTACTTCAT	GCGGATGAAA	CTTCTTATCG	GGTTCTAGAG	AGTCATAGCC	ATCTGACCTA	1620
CTATTGGACC	TTTTTGTCTG	GGAAAGTTGA	GAATCAAGCA	ATCACGCTGT	ACCATCATGA	1680
TCAGAGTCGG	AGTGGTTCGG	TAGTACAAGA	ATTCCTAGGA	GATTATTCTG	GCTATGTTCA	1740
TTGTGATATG	TTGCGGCAGT	AACTTAGGAC	TTTAGTCCTC	TAGTTCTGCC	TATGCGATAG	1800
CAGTCCAAGG	TTTAGGAGCA	AGGCGACGCT	AAGCTTGGTA	AACTGCGAAC	CGCTAGAAGC	1860
TTATCGTCAA	CTGGAAGAAG	CTGAACTTGT	TGGATGTTGG	GCGCATGTGA	GAAGGAAATT	1920

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TTTTGAAGCG	ACCCCCAAGC	AAGCAGATAA	ATCATCCTTA	GGAGCTAAAG	GTTTAGCTTA	1980
TTGTGATCAG	TTATTTTCCT	TGGAAAKAGA	CTGGGAGGCT	TTGCCAGCTG	ATGAACGACT	2040
ACAGAAACGT	CAAGAACATC	TCCAGCCCCT	AATGGAAGAC	TTCTTTGCTT	GGTGCCGCCG	2100
TCAGTCAGTT	TTAGCAGGTT	CAAAACTAGG	AAGGGCAATT	GAATACAGCC	TCAAGTATGA	2160
AGAAACCTTT	AAGACTATTT	TGAAAGACGG	ACATCTGGTC	CTTTCCAATA	ATCTAGCTGA	2220
ACGCGCCATT	AAATCATTGG	TTATGGGACG	GAGTAAAAGA	GTCCAGTGGA	CTCTTTTAGC	2280
CTGAGCTCAG	TTTAAAAAAG	CGAGGGTGGT	ТАТТТТСТСА	AAGTTTTGAA	GGAGCTAAAG	2340
CAAGAGCTAT	TGTTATGAGC	TTGTTGGAAA	CAGCTAAACG	TCATCAATTA	TAGTGCGTTG	2400
AATCTATAAC	AGTACGCATC	GACTGCTAAA	ACATTTCTAT	AAATCAATTT	TCCTTTCCTA	2460
ATCGATTTGT	TCATATCTTA	TTTCAATCCA	TTATAAATAG	CGAGAAATAT	CTATCCTATC	2520
TTCTAGAATG	TCTTCCAAAC	GAGGAAACTC	TCGTAAACAA	AGAGGTTTTA	GAGGTTTATT	2580
TACCATGGAC	TAAAGTTGTA	CAAGAAAAGT	GCAAATAAGA	AATCTCCAGA	TTAGGAACTA	2640
TCCGTGAGTT	CACTAATCTG	GAGATTTTTC	AATAGAtTCG	TTATTGGGCG	GTTACGATAT	2700
GATCACTACT	TCGTCAGTCT	TATCTACAAC	CTCAAAACAG	TGTTTTGAGC	AACCTGCGAC	2760
TAGCTTCCTA	GTTTACTCTT	TGATTTTCAT	TGAATATTAG	AACAGAAAAA	ATGCTTGGAG	2820
TATTTGTTTG	TGTGTTTATT	TTTATATAAC	AAACTATAAA	СААААТАААА	АТАТААААА	2880
AGAGACAAAA	AAGAACAGAA	AGTAATTGAC	A			2911

(2) INFORMATION FOR SEQ ID NO: 200:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6854 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 200:

GAAAATAAGT	CTTGACAGAA	AGCGCTATCA	ATGATAGAAT	GAATTCAGAT	AAAAAGATTT	60
AAAATTTTA	CAAAAATGAA	ACGTTTCAAA	AAAAGAAATA	AAGAGACAGC	GCCAAGCGCT	120
ATCTTTTCTA	GAAAAAATG	AAACGTTTCA	AAAAAGGAGG	TTGCTATGAA	TAGCAAAGCG	180
AAGCAAGTTT	CTCTTTGGGA	AAGAATCAAG	AAACAAAAAC	TCTTGTTATT	GATGACTGTC	240
CCCGGTTTAG	TTTTAACCTT	TATCTTTAAA	TACATCCCTA	TGTATGGGGT	TTTAATCGCA	300
TTTAAAGATT	ACAATCCTTT	AAAAGGAATT	TTAGGGAGTG	ATTGGATTGG	TTTTTCTGAG	360

			1176			
TTTACAAAAT	TCATATCCTC	TCCCAACTTT	GGTATCTTGT	TAGCCAACAC	ATTAAAATTA	420
AGTATCTATG	GTTTATTGCT	TGGCTTTTTA	CCACCAATCA	TTCTCGCGAT	TATGCTCAAT	480
CAACTCTTGA	GTGAAAAAGT	CAAAAAACGA	ATTCAGCTCA	TTTTATACGC	ACCAAACTTT	540
ATCTCAGTCG	TTGTTATTGT	CGGTATGATT	TTCCTCTTCT	TTTCAGTGGG	AGGACCAATC	600
AACAATTTTC	TTTCTATGTT	TGGAATGAAG	GCTGACTTCT	TGACAAATCC	AGACTTCTTT	660
AGACCTTTAT	ACATCTTTAG	TGGTATCTGG	CAAGGAATGG	GCTGGGCTTC	AACGCTCTAC	720
ACGGCAACAT	TGGTAAATGT	AGATCCAGCC	TTAGTAGAAG	CAGCCCGACT	GGATGGAGCC	780
AATATCTTCC	AACGAATCTG	GCACATTGAT	ATTCCAGCTC	TTAAGCCTAT	TATGGTTATC	840
CAATTTGTTT	TAGCTGCAGG	TGGAATTATG	AATGTCGGAT	ATGAAAAAGC	ATTCTTGATG	900
CAGACATCGT	TAAATTTGCC	AACTTCTGAA	ATTATCTCGA	CATATGTCTA	TAAAGTTGGT	960
CTTGTATCAG	GAGACTATTC	TTACTCAACA	GCGGTTGGTT	TGTTTAATGC	AGTGATTAAC	1020
GTAGTATTGC	TTGTTGCAGT	TAACCAAATC	GTTAAACGCA	TGAATAATGG	TGAAGGAATT	1080
PAAGGAGGAA	AGTATGAAAA	ATTCGATTAT	GGATACAAAA	TTTGATAGAC	GTATCTTACT	1140
CTTAAATAAA	ATCATTATTG	TCTTTATCGT	TTTGATGACT	TTGCTTCCTT	TACTTTATAT	1200
CGTCGTAGCA	TCCTTTATGG	ATCCTAAGGT	TCTGGTTAGT	AGAGGGATTA	GCTTTAATCC	1260
AGCCGATTGG	ACTGTAGAAG	GTTACCAGCG	TGTATTCAGT	GACCAATCTA	TTCTAAGAGG	1320
PTTTATCAAT	TCTCTACTAT	ACTCTTTTGG	ATTTGCAGCT	TTAACAGTCT	TGCTATCTGT	1380
GTTTACAGCT	TATCCTCTTT	CTAAGAAAGA	CTTGGTTGGA	CGTCGTTGGA	TTAACTACTT	1440
CTTGATTGTA	ACTATGTTCT	TTGGTGGTGG	TTTAGTCCCA	ACTTACTTGC	TCGTAAAAGA	1500
ATTGGGAATG	CTCAATACTC	CATGGGCTAT	CATTGTTCCA	GGTGCTGTTA	ACGTTTGGAA	1560
PATTATTCTT	GCTAGGGCCT	ATTTCCAAGG	ATTGCCTGAA	GAATTAGTTG	AAGCTGCTGT	1620
CATTGATGGT	GCAAATGATT	TACAGATTTT	CTTCAAAATC	ATGCTTCCTC	TTGCAAAACC	1680
AATTATGTTT	GTTCTCTTCC	TTTATGCTTT	TGTAGGACAG	TGGAACTCAT	ACTTTGATGC	1740
A ATGATTTAT	ATCAAGGATC	CAAACTTGGA	ACCATTGCAA	CTTGTACTTC	GTAAAATTCT	1800
CATTCAGAGC	CAACCAGGTC	AAGACATGAT	TGGAGCACAA	GCGGCTATGA	ATGAAATGAA	1860
ACGTTTAGCT	GAATTGATTA	AATACGCAAC	TATTGTCATT	TCCAGCTTGC	CATTGATTGT	1920
PATGTATCCA	TTCTTCCAAA	AATACTTTGA	TAAAGGAATT	ATGGCTGGTT	CACTTAAAGG	1980
TAAAAAAA G	AAAAAATAAA	AGGAGTTTTC	TCATGAAATT	CAAAACATTC	TCAAAATCAG	2040
CAGTTTTGTT	GACAGCTAGT	TTAGCAGTAC	TTGCAGCCTG	TGGCTCAAAA	AATACAGCTT	2100
CAAGTCCAGA	TTATAAGTTG	GAAGGTGTAA	CATTCCCGCT	TCAAGAAAAG	AAAACATTGA	2160

AGምምልጥር እር	ል ርርርልርተጥርል	СССФФате	CTAAACACCC	AAATGAAAAG	mm a a mmmmoo	222
						222
				CAACTACCAA		228
				AGATGCTATC		234
GAGCTTCAGA	TGTGGACTTG	ATGAACTGGG	CTAAAAAAGG	TGTTATTATT	CCAGTTGAAG	240
ATTTGATTGA	TAAATACATG	CCAAATCTTA	AGAAAATTTT	GGATGAGAAA	CCAGAGTACA	246
AGGCCTTGAT	GACAGCACCT	GATGGGCACA	TTTACTCATT	TCCATGGATT	GAAGAGCTTG	252
GAGATGGTAA	AGAGTCTATT	CACAGTGTCA	ACGATATGGC	TTGGATTAAC	AAAGATTGGC	258
TTAAGAAACT	TGGTCTTGAA	ATGCCAAAAA	CTACTGATGA	TTTGATTAAA	GTCCTAGAAG	2640
СТТТСААААА	CGGGGATCCA	AATGGAAATG	GAGAGGCTGA	TGAAATTCCA	TTTTCATTTA	2700
TTAGTGGTAA	CGGAAACGAA	GATTTTAAAT	TCCTATTTGC	TGCATTTGGT	ATAGGGGATA	2760
ACGATGATCA	TTTAGTAGTA	GGAAATGATG	GCAAAGTTGA	CTTCACAGCA	GATAACGATA	2820
actataaaga	AGGTGTCAAA	TTTATCCGTC	AATTGCAAGA	AAAAGGCCTG	ATTGATAAAG	2880
AAGCTTTCGA	ACATGATTGG	AATAGTTACA	TTGCTAAAGG	TCATGATCAG	AAATTTGGTG	2940
TTTACTTTAC	ATGGGATAAG	AATAATGTTA	CTGGAAGTAA	CGAAAGTTAT	GATGTTTTAC	3000
CAGTACTTGC	TGGACCAAGT	GGTCAAAAAC	ACGTAGCTCG	TACAAACGGT	ATGGGATTTG	3060
CACGTGACAA	GATGGTTATT	ACCAGTGTAA	ACAAAAACCT	AGAATTGACA	GCTAAATGGA	3120
TTGATGCACA	ATACGCTCCA	CTCCAATCTG	TGCAAAATAA	CTGGGGAACT	TACGGAGATG	3180
ACAAACAACA	AAACATCTTT	GAATTGGATC	AAGCGTCAAA	ТАСТСТАААА	CACTTACCAC	3240
TAAACGGAAC	TGCACCAGCA	GAACTTCGTC	AAAAGACTGA	AGTAGGAGGA	CCACTAGCTA	3300
TCCTAGATTC	ATACTATGGT	AAAGTAACAA	CCATGCCTGA	TGATGCCAAA	TGGCGTTTGG	3360
АТСТТАТСАА	AGAATATTAT	GTTCCTTACA	TGAGCAATGT	СААТААСТАТ	CCAAGAGTCT	3420
TTATGACACA	GGAAGATTTG	GACAAGATTG	CCCATATCGA	AGCAGATATG	AATGACTATA	3480
rctaccgtaa	ACGTGCTGAA	TGGATTGTAA	ATGGCAATAT	TGATACTGAG	TGGGATGATT	3540
ACAAGAAAGA	ACTTGAAAAA	TACGGACTTT	CTGATTACCT	CGCTATTAAA	САААААТАСТ	3600
ACGACCAATA	CCAAGCAAAC	AAAAACTAGA	GGTTGATTAT	GGGAGATAAG	AAATACACAG	. 3660
TAGAAAAAGC	CAATCGTTTT	ATAGCAGAAA	ATAAACATCT	CGTTAATACT	CAATATAAGC	3720
				TCCAAATGGA		3780
				TGATAGTGTT		3840
				GGAGCACTTG		3900

			1178			
TTGCTCCTGA	CCAAGATTAT	GACCGAAATG	GTTGTTTCTC	AGGCTCTGCC	ATTGTCAAGG	3960
ATGATCGCCT	CTGGCTCATG	TACACTGGAC	ATATCGAAGA	AGAAACCGGT	GTCCGCCAAG	4020
TGCAAAATAT	GGTATTTTCA	GATGACGGGA	TTCACTTTGA	AAAGATTTCC	CAAAATCCAG	4080
TTGCAACTGG	ATCAGACTTA	CCAGATGAGT	TGATTGCTGC	TGATTTCCGT	GATCCAAAAC	4140
TCTTTGAAAA	AGATGGACGC	TATTACTCCG	TAGTAGCTGC	CAAACACAAG	GATAATGTGG	4200
GCTGTATCGT	TCTACTAGGG	TCCGATAACC	TAGTAGAATG	GCAGTTCGAA	TCCATCTTTT	4260
TAAAAGGGGG	AGAACACCAA	GGTTTTATGT	GGGAATGCCC	AGATTACTTC	GAGTTAGATG	4320
GGAAAGATTG	CCTTATTATG	TCACCCATGC	GTTATCAGCG	TGAGGGAGAC	TCATATCATA	4380
ACATCAACTC	ATCGCTTTTG	TTCACGGGTA	AGGTAGATTG	GAGAGAAAAA	CGTTTTATCC	4440
CAGAATCAGT	TCAAGAAATT	GATCATGGCC	AAGACTTCTA	TGCGCCTCAA	ACATTGTTGG	4500
ACGATCAAAA	TCGTCGTATC	CTGATTGCTT	GGATGCAGAC	ATGGGGGCGT	ACCCTTCCAA	4560
CCCATGACCA	AGAACACAAG	TGGGCATGTG	CCATGACTCT	ACCTAGAATT	CTAAGATTGG	4620
AAGATGGCAA	ACTAAGACAA	TTCCCTGTTA	AAAAAGGCCA	ATATCAAATC	CAAATAGATA	4680
AAGATTGTCA	TTACCACTTA	GGAAATGATA	TAGATTATCT	TGAATTTGGT	TATGACAGTA	4740
ATGCGCAGCA	AGTTTACATT	GATCGTAGCC	ATCTTATTCA	AAAAATTCTA	GGTGAAGAAG	4800
AACAGGACAC	TAGTCGACGG	TATGTAGATA	TTGAAGCTAA	AGAATTGGAA	GTTGTTCTAG	4860
АТАААААТТС	CATCGAGATT	TTTGTCAATC	AAGGTGAAGC	AAGCTTGACT	GCAACTTATT	4920
ACTTAACGGT	GCCAGCTGAG	CTATCACGAA	TTGATTAAAA	ATTAAGTTAT	TTCTCCTAAA	4980
GAAAAAGTTC	TCTTTCTAAA	ATAGTGGAAA	GAGGACTTTT	TGTGTTTTGG	GTATATAAGC	5040
TTAGTTTATG	GTATTTGTAA	AATTGGTGTT	GGATTATGAT	TTAAGCTAGT	TTTCTAAAGA	5100
АТТТСААААА	AATTTTATTT	AAGCAAAAAA	ACCTTGGTTC	CAAGGCTTTT	CCTGTTGTAT	5160
TTAGATGCCC	CCTACAGGGA	TTGTAGGAGA	TATGTTGCTT	AGATGTTCTT	GATTTTCTGG	5220
TGTTTTGTAA	CGTTTAAATG	AGTTTTTTGA	GTTTGTTGGT	GGGGCGTTGC	CCGGCAATTG	5280
CCCGACTTAT	TGCTTGAAAA	agaatttaaa	ATATAGTATA	GTTAATTATA	GATTAACACT	5340
TGCTTGGAGG	AACTGATGAA	GAACAATGAA	AGATTAGGTA	TTAAATTAAG	TAGAGATAGC	5400
GTTTTAGGAT	TGAGGGAAGT	TAGAAGGCTT	TATTTÁGGCA	GTTCAGATAT	CCCAGTTTCT	5460
GATGGCTATG	TGATTGAAGT	TGCTTATAAC	CAGATATCAC	ATGAGATTGA	TATTATTGAT	5520
TGGGTAGAGT	TGAACAAGTC	AAAAATTAAG	ATAAGTGAAA	TTAGTGAAAG	CGTGGATATA	5580
GATGCCACTA	GCTTGAGAAC	AACTTTGACT	TTAGACACAT	TAGTATATGA	AGGTATGAGA	5640
GATATACAGT	TAAAGTTGAG	AGAGCTTACA	AAGGGGAGAG	ТАТТСТТТТС	ATTTGTAGTG	5700

1179

AAGTTAGTTT	TGTTTGCTTC	TATTTTAAAG	AAAAAAGATT	TACTAGAAAA	ATTTCAAGAA	5760
Aagtgttaat	CAAGTATTGA	CACTTTATCT	GGATTTCGGT	ATAATATGCT	TAGAAAGGAA	5820
TCTTTCTAAA	TTTTTTTCGT	CCTTATGTGT	TAATCAAAGA	CGAATACAAA	AACATATTTT	5880
TTTACTCTAA	AAAGTGTTAA	TCAATGATGT	ATTTGTTAGA	GAGGTAGATA	AATGGAATTG	5940
AGAGCACCAC	CAGTTATAAT	AGTATAAAAC	GTATAATAAA	AATTTTTAA	CTTGAATTAT	6000
AGAAAAGGAG	AAACAAATCA	TGAAACAAAA	ACAACCGATT	GTTTCTAGAA	CGAAACAACA	6060
TACATTTGAA	GAGCTTATTC	AAGACCAAAA	GTTAGAAAGA	TTGGCTAAGT	TGTCGCCCGA	6120
TTTGGTTGGA	AGGTATGGTT	TTACTGCTAG	CTGTGCGTCT	TCATTTGCGA	ACTTGATTAA	6180
AGAAGCGTAT	GGGGGTAAAA	ATCTAAACGT	AGTTTATGCG	AGTCGGATGT	TGGCTCTCTG	6240
GAATATTGCT	TGCAGTTGTT	ATCATAAGGC	TGATGGGTAT	TCTTTAGCAG	ATGCGCTTTT	6300
TAGTGATAAA	AAAATTTGTC	TAGATTCTTA	CTATTACCAC	AAGAATACCT	CTAATACCAT	6360
AACTAGTGAT	GTGATAAAAG	ATGTTTACGA	TAATTATAAT	AATTATATGG	TTTTAACTCG	6420
AGAAGCGACA	CCTGAATACA	TTTATGTTGT	ACAAACTGAA	ATGCCAAAAG	ATTCAGATTT	6480
ATATTTTTAT	ATTAGAGAAG	TTCTGGGATT	ATCGTTTAGT	ACCATGCATT	ATGCATTTTT	6540
AGTCAAGGTT	CTTGCAGGAG	CGCTTGCTAG	AAAATATAAG	CCATATCGAA	ATTGAATTAT	6600
TAAATTTAA	ACTCTTCGAA	AATCAAATTC	AAACCAAGTC	AGCTTCGCCT	TGCTGTACTC	6660
AAGTGCTGTC	TGTGGCTAGC	TTCTTAGTTT	GCTTTTTGAT	TTTCATTGAG	TATTACTCTT	6720
ATGGTAGTTA	TTTATGGCAT	AATAATATTG	ATTTGGGAGT	TATAGCGAAA	ATTTTAGGTT	6780
СТАТААТАТТ	TGTAGTGGGT	AAACCACTAT	AGATATTATG	GAGCCTATTT	ATTGTAGAAA	6840
AAAGTCCCAT	ATGA					6854

(2) INFORMATION FOR SEQ ID NO: 201:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 3895 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 201:

TCCTTGCTAA GTTTATACTC AATGAAAATC AAAGAACAAA CTAGGAAGCT AGCCACAGGT TGCTCAAAGC ACCGCTTTGA GGTTGCAGAT AAAACTGACA CGGTTTGAAG AGATTTTCGA AGAGTATTAA TTTACATAAA TAGCCAGTGT TTGATAGGGT TTGAGTAGAA TTTTCTCAGA

			1180			
CACTTCTGCA	TCTTCATAGT	TTGATATCAA	AATCTGTCCA	TTTTGGTAGA	CTGCTGGCAA	240
GTCGATTTCA	CTTCTTTAGC	ATAAAAGTTA	TTGAGCACTA	GTAACTTTTG	ATCCTCAAAC	300
TGGCGTTCAA	AAGCGTAGAC	TTGTTTGCTA	TCTTCAAAGG	CTGGTTTGTA	ACTTCCTTCT	360
GAAATGATTG	GCATTTCCTT	ACGCATCGAA	TCAAGTCTTG	ATAGAAGGTA	AAAATCGGAC	420
CCTGGATTTC	ATTTTCTACA	TTGATGTATT	TATAGGATTT	ACCAGCTTTC	AACCAAGGAG	480
TGCCTGTTGA	AAATCCTGCA	TTTTCCGAAG	CATCCCACTG	CATGGGAATG	CGTGAATTAT	540
CACGCGACTT	AGCTTGAATA	ATCTGGAAGG	CTTCTTGCTG	ACTCTTTCCT	TCTTCTAAGA	600
GCATCTGATA	GGCATTAAGC	GATTCGACAT	CCACATAATC	AGCCATAGAA	TCATAGTCTG	660
GGTCAATCAT	CCCGATTTCC	TCACCCATGT	AGATATAAGG	TGTCCCACGT	GACAGGTGAA	720
TGCTGGCTGC	TAGCATGGTG	GCTCCTTCCT	TGCGGAAGTT	TTGAATATCG	ACAAAACGGT	780
TCAAGGCACG	TGGTTGATCG	TGATTATTCC	AAAAGAGGGC	ACTCCAACCG	TCTTTATCAC	840
TCATTTCCTT	ACCCCAACTA	TGGTAAAGAC	TCTTCAACTC	TTCAAAATCA	AAGGGAGCCA	900
AGGTCCACTT	TTGTCCATCC	TTATAGTCCA	CCTTGAGGTG	ATGAAAATTA	AAGGTCATGG	960
ATAATTCCTG	ACGATCAGGC	GACGAATAGA	GGACACAGTT	TTCCATGGTG	GTAGAAGACA	1020
TTTCCCCAAC	TGTCATAAAG	CTATCGTCGG	ATCCAAAAGT	GGCTTGGTTC	ATCATACGCA	1080
AATAGTTATG	AACGATGGGT	TTGTCTGTAT	AAGCTGGCTT	CCCTTCATTT	TCAGGACAGT	1140
CCACTGAAAC	CTCGTCCTTA	CCGATCAAAT	TGATCACATC	AAATCGGAAA	CCTTTGACAC	1200
CCTTGTCGCG	CCAGAAATTA	ACAACCTTGA	AAAGCTCCTT	ACGGACATTG	GAATTGCGCC	1260
AGTTAAGGTC	AGCCTGGGTC	TCATCAAATA	GGTGAAGATA	GTATTTCCCA	GTATCCCCGA	1320
AAGGCGTCCA	TGCAGAACCA	CCAAACTTAG	ACTGCCAATC	TGTTGGTTGG	TCTTGGATGA	1380
AGAAAAAGTC	TTGATAATAC	TTATCACCAG	CTAGGGCTTT	CTGAAACCAT	TCATGCTCTG	1440
TCGAACAATG	ATTAAGTACC	ATGTCCAGCA	TAAAGTCAAT	CTTGTGCTCT	TTACCGACAC	1500
ACACCATTTT	CTCAAAATCA	GCCATATCAC	CAAAAAGAGG	ATCCACTGCC	ATATAATCTG	1560
AAATATCGTA	ACCATTATCC	CGTTGAGGGC	TTGGATAGAA	TGGATTGAGC	CAGACCATAT	1620
CCACACCTAG	TTTGGCTAAA	TAGGGAATTT	TTTCGATAAT	CCCACGGAAA	TCCCCAATAC	1680
CGTTTTCAGT	GGTGTCTTTG	TAAGATTTTG	GATAGATTTG	ATAGACTACT	TTTCCTTTAT	1740
CAAGTGTCAT	CTGTTTCTCC	TTTTCTGATA	AAAGGGAGGA	AGCAGTCTTC	CGTCCCTATT	1800
IGTGCTATTT	CAATTATACT	CAATGAAAAT	CAAAGAACAA	ACTAGGAAGC	TAGCCACAGG	1860
ITGCTCAAAA	CACTATTTTG	AGGTTGCAGA	TAGAGCTGAC	GTGGTTTGAA	GAGATTTTCG	1920
AAGAGTATTA	GATTCGTGTA	GCGACCATGA	GAGATGCTCC	AGCTTGGATC	GTTGTCGGAT	1980

AAGTTCCGGG	AATAGTCGCT	GTATAAGCAT	CTTGGTTGGT	GATGATAACA	GGAGTTTCTG	204
PCACCAGACC	TGCAGCCTTA	ATGACATCCA	TATCAAAACG	AATCAGTTGC	TGACCAACTG	210
PAACGTGATC	TCCTTGGACT	ACAAGACTTT	CAAAACCTTT	GCCATCAAGA	CCTACTGTAT	216
CCATACCGAT	GTGGATGAGC	AATTCAACTC	CCTCGTCAGA	GACAATGCCG	ATGGCATGCT	222
rggtagggaa	AAGAACCGTC	ACTGTCCCAT	TAACTGGAGA	GGTCAACTCA	CCTTGGCTTG	228
CTTCAATGAC	TAGACCTTGC	CCCATGACAC	CTGATGCAAA	AATAGGATCC	GTCGCTTGAC	234
PCAATTCTTT	CACTTGGCCA	GTTAGTGGGC	TGATAATTTC	TACCGAAGTA	AGTTCTACTG	240
GTTCATGGTT	CACAAATTCT	GCTTCTTCTT	GAGCAACGAA	TTCTGCCTGC	AAGTTCGTAT	246
CGCCCTCTGT	TTTTGTAAAG	AGACCAGCCT	TGCGGAAGAA	GAAAGTCAAG	AGCATTGGAA	252
CAACAATCGC	AACTAGCATA	GTTCCTGCAA	ATGGCAGCAT	GTATTGAGGT	TGAATAGAGA	258
GAATACCTGG	CAAACCACCG	ATACCAATAG	AAGCCGCAGT	TACATTAAAA	GTAACGGATA	264
ACATGCCTGC	AAGGGCTGAA	CCAGTCATCC	CAGCAACAAA	TGGATAAATA	TATTTTACGT	270
TAACCCCAAA	AAGAGCTGGT	TCTGTAACAC	CGAGATAGGC	TGAAATGGTT	GCAGGAAGTG	276
AAACCTGAGC	CTCACGCTCA	TCATGGCGAT	GCATGAAATA	ATAGGCAAAC	ACGGCTGAGC	2820
TTGAGCAAT	ATTAGAAAGA	GCAATCATTG	GCCATAGGGC	AGTGCCACCA	GCATCCGCAA	2880
CAATTGTGT	ATCAATGGCA	TTGGTCATAT	GGTGCAGACC	TGTGATGACA	AATGGAGCGT	2940
AGAGGGCGCC	AAAAATTGCA	CCGAAGAGCC	ATTTAACTGG	ACCAGTTAAA	CCTGCCAAGA	3000
CAACTGATGA	AAGTCCTTGT	CCAATTGTCC	AACCGATTGG	TCCCAAAACA	GTATGAGCCA	3060
AATCAAGGC	TGGAATCAAT	GACAAGAAAG	GTACAAAAAT	CATAGAAATG	ACTTCTGGGA	3120
PATGCTTGTG	CCAGAAGATT	TCAAGATAAG	ACAGACTCAA	ACCTGCAAGC	AAGGCTGGGA	3180
PAACTTGGGC	TTGGTAACCG	ATACGATTAA	CAGTAAAATA	GCCAAAATTC	CAAACCCAGT	3240
PTGCCGCGAT	ATCAGCTGCT	GGCGTTGAAG	CAACCGCATA	GGCATTGAGC	AACTGAGG2G	3300
		•		GGTTCCCATC		3360
•				TTCACCAGGC		3420
				GGTCTTGCCA		3480
				CAATCCTCCG		3540
		•		AACACCTTGG		3600
				ACCCTCAATA		3660
TGTAAAATC	ATTATAAAAG	ATGGGCACGT	CATTTCCAAT	GATTACCTGA	AATTGACCTG	3720

118 CATTTGTAAA GGTTCCTTTA ACAGCTGGAA TTGACT	-						
TATCATCTCC TAAAACAAAC CGCATCCGTG TCGCAC	AGTG AGTTACGGCA GTCACATTTT 3840						
CTTTGCCTCC GATTGCCTGA AGCAGATCTT TGGCTT	CTTG TTCAAATTTT CCCGG 3895						
(2) INFORMATION FOR SEQ ID NO: 202:							

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 3936 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 202:

AGGATCGCCG	CTCCAGCTAC	TAAGTCTCGT	GCAGTGCCGA	TTTATCAAAC	AACATTTTT	60
GTTTTTGATG	ACACGTAGGA	AGGTGCCGAT	CTGTTTGCCT	TGAGGAAACC	AGGGAACATT	120
TATACTCGTA	TCACCAATCC	TACAACAGCT	GCCCTTGAAG	GTGGTGTTGA	AGCGCTAgcA	180
ACAGCATCAG	GTATGACTGC	AGTGACTTAT	ACGATTTTGG	CGATTGCCCA	TGCTGGTGAC	240
CATGTAGTGG	CTGCTTCGAC	TATTTACGGT	GGAACCTTCA	ATCTTTTGAA	AGAACCCCTT	300
CCTCGTTATG	GTATCACAAC	AACCTTTTTC	GATATTGATA	ATTTGGAGGA	AGTAGAAGCA	360
GCTATCAAAG	ACAATACCAA	GCTTGTCTTG	ATTGAAACCT	TGGGTAACCC	CTTGATTAAT	420
ATTCCAGACC	TGGAAAAACT	GGCAGAGATT	GCTCATAAAC	ATCAAATCCC	ACTTGTGTCA	480
GACAATACTT	TTGCAACACC	TTATTTGATT	AACGTCTTCT	CTCATGGCGT	TGACATTGCC	540
ATTCACTCTG	TGACTAAGTT	TATCGGTGGG	CATGGTACAA	CTATTGGAGG	AATAATTGTC	600
GATAGTGGTC	GTTTTGACTG	GACGGCTTCA	GGGAAATTCC	CTCAATTTGT	TGACGAGGGT	660
CCAAGCTGCC	ACAATTTGAG	CTATACTCGT	GATGTGGGTG	CAGCAGCCTT	TATTATAGCT	720
GTTCGAGTTC	AATTGCTTCG	TGATACAGGT	GCAGCCTTGT	CACCATTCAA	TGCTTTCCTC	780
TTGCTACAAA	GACTTGAAAC	CTCTTCACTT	CGTGTGGAAC	GCCATGTACA	AAATGCTGAG	840
ACAATTGTTG	ATTTTCTTGT	CAACCATCCT	AAGGTAGAAA	AGGTAAATTA	TCCAAAACTT	900
GCAGATAGTC	CTTATCATGC	CTTGGCTGAG	AAATACTTGC	CAAAAGGTGT	CGGTTCAATC	960
TTTACCTTCC	ACGTCAAAGG	TGGCGAGGAA	GAAGCACGCA	AGGTCATTGA	TAATTTAGAA	1020
ATCTTTTCTG	ACCTTGCAAA	CGCGGCAGAT	GCTAAATCGC	TTGTTGTCCA	TCCAGCAACA	1080
ACCACTCACG	GTCAATTGTC	AGAAAAAGAC	CTAGAAGCAG	CAGGTGTCAC	ACCAAACTAA	1140
ATTCGTTTGT	CAATCGGTCT	TGAAAATGTA	GAAGATTTGA	TTGAAGACTT	GCGCTTGGCC	1200
TTGGAAAAAA	TTTAAAGTAA	AAGAAGATAA	ACAGTGGGCT	TCGACTCACT	GTTTTTGATT	1260

TTCCCTCAGG	CATGATATAA	TGGTTACAGA	AGTCTAGAAA	GAGGAACGAT	ATGAACGAAA	1320
TCAAATGTCC	CAACTGTGGG	GAAGTCTTTA	CAGTAAATGA	GAGTCAGTAT	GCCGAACTCT	1380
TGTCCCAAGT	GAGAACGGCA	GAGTTTGATA	AGGAACTACA	CGATAGGATG	AAGCAGGAAC	1440
TGGCCTTGGC	TGAGCAAAAG	GCCATGAATG	AGCAACAGAC	TAAACTGGCT	CAGAAGGATC	1500
AAGAAATTGC	GCAATTACAG	AGTCAGATCC	AAAACTTTGA	TACAGAAAAA	GAATTGGCCA	1560
AGAAAGAGGT	TGAACAGACA	AGCCATGAGG	CTCTCTTGGC	TAAGGACAAG	GAAGTACAGC	1620
TCTTAGAAAA	TCAGTTGGCT	ACCTTGCGTT	TGGAGCATGA	AAATCAACTA	CAAAAGACCC	1680
TTTCTGACCT	AGAAAAAGAA	CGGGATCAGG	ттааааасса	ACTACTTTTG	CAGGAAAAGG	1740
AAAATGAATT	ATCTTTGGCT	TCTGTTAAGC	AAAACTACGA	AGCCCAGCTC	AAGGCAGCTA	1800
GTGAACAAGT	CGAGTTTTAT	AAGAATTTTA	AGGCTCAACA	АТСТАСАААА	GCGATTGGGG	1860
AAAGCCTAGA	ACAGTATGCA	GAGAGTGAGT	TTAACAAGGT	TCGTAGTTTC	GCCTTTCCAA	1920
ATGCTTACTT	TGAGAAGGAT	AACAAGGTCT	CTTCGCGTGG	GTCTAAAGGG	GACTTTATCT	1980
TCCGTGAGTG	TGATGAAAAT	GGAGTTGAAA	TCATTTCTAT	CATGTTTGAG	ATGAAAAACG	2040
AAGCGGACGG	AACAGAGAAG	AAGCACAAGA	ATGCAGATTT	TTACAAGGAA	TTGGACAAGG	2100
ACCGTCGGGA	GAAGAACTGT	GAGTATGCCG	TTTTGGTGAC	CATGCTTGAG	GCTGATAATG	2160
ACTACTTTAA	CACAGGGATT	GTTGACGTCA	GTCACGAGTA	TGAAAAAATG	TATGTTGTTC	2220
GTCCTCAATT	CTTTATCCAA	TTGATTGGTC	TCTTACGTAA	TGCGGCGCTA	AATTCCCTAA	2280
AATACAAGCA	GGAGTTGGCC	TTGGTTCGCG	AGCAAAATAT	TGACATTACG	CATTTTGAGG	2340
AAGATTTGGA	TGCCTTTAAG	CTAGCTTTTG	CTAAGAACTA	TAATTCAGCT	TCGACTAACT	2400
TTGGAAAAGC	TATTGATGAA	ATCGACAAGG	CCATCAAACG	CATGGAAGAG	GTTAAGAAAT	2460
TCCTGACCAC	ATCTGAAAAC	CAACTCCGTT	TAGCTAACAA	CAAATTGGAA	GATGTCTCTG	2520
ТТАААААТТ	GACCCGGAAA	AATCCAACAA	TGAAAGCGAA	GTTCGAAGCA	CTGAAGGGGG	2580
AGTAGAAAGC	AAAAATGAAC	GGTATTATTA	ACTTAAAAAA	GGAAGCAGGA	ATGACCTCGC	2640
ATGATGCGGT	TTTTAAACTG	CGTAAGATTT	TGGGAACCAA	GAAAATTGGT	CATGGTGGAA	2700
CCTTGGATCC	GGATGTGGTG	GGTGTTTTGC	CGATTGCGGT	TGGCAAGGCG	ACACGCATGG	2760
TCGAGTTTAT	GCAGGACGAG	GGTAAGATCT	ATGAGGGGGA	AATCACTCTG	GGCTATTCCA	2820
CGAAGACTGA	GGATGCTAGT	GGGGAAGTGG	TCGCAGAAAC	CCCTGTTTTG	TCTCTCTTGG	2880
ATGAAAAGCT	TGTTGATGAA	GCGATTGCTA	GCTTGACTGG	GCCTATTACT	CAGATTCCCC	2940
CTATGTATTC	GGCAGTTAAG	GTTAATGGTC	GCAAGCTCTA	TGAGTATGCG	CGTGCTGGTC	3000

			1184				
AGGAAGTGGA	GCGTCCAGAA	CGTCAGGTGA	CCATTTATCA	ATTTGAGCGA	ACAAGTCCGA	3060	
TTTCTTATGA	TGGCCAACTT	GCCCGATTCA	CTTTTCGTGT	AAAATGCAGT	AAAGGGACGT	3120	
ACATCCGTAC	TTTGTCAGTT	GATTTGGGTG	AAAAGCTTGG	TTATGCGGCT	CATATGTCCC	3180	
ATTTGACTCG	TACTAGTGCT	GCTGGCTTAC	AATTAGAAGA	CGCTCTTGCC	TTGGAGGAAA	3240	
TTGCTGAAAA	AGTAGAGGCT	GGGCAATTAG	ATTTTCTCCA	TCCTTTAGAG	ATTGGGACAG	3300	
GTGACCTTGT	CAAAGTTTTC	CTAAGTCCAG	AAGAGGCTAC	AGAAGTTCGC	TTTGGTCGTT	3360	
TTATTGAGCT	AGACCAAACG	GACAAAGAAC	TGGCTGCCTT	TGAAGATGAT	AAATTGTTAG	3420	
CCATTCTAGA	AAAACGGGGC	AATCTCTATA	AGCCAAGGAA	GGTTTTTAGC	TAGATCGTTT	3480	
AGGAATAAAA	ATCGGGTGAT	AGATAACAAT	TGCTTGATAA	AACCCCATAC	TAATAGTAGA	3540	
ATGGTTTTGG	GAATTATAAT	ATTCCAATTG	TTGCGAGTTG	TAGGTACTCA	AATAATCTAT	3600	
ATAGAAATTT	AGAGGTGTGA	AATGAAGCAA	тттааааттс	TTTCAGATAA	ATATTTAGAG	3660	
TCCATTACAG	GTTCTGATGG	GAACTTAGGC	CCAGGATTTG	GTGTGATAAT	TCCATGATGC	3720	
GAAATGAGTT	TCGAGAAAGG	GTGGAGCAAC	TTCTTCAACA	AAAAGAAATA	AATGAAAATA	3780	
GTGAGTTGAG	TCACCTGTTT	CGTCTTGCTA	TACAAAATTT	AGACAGAAAT	GAAAAATACC	3840	
AATCGGTCAT	GGCCAATTTG	AGTCAAGGGT	TGTCACTTTA	CCTCATGACG	CATCATTACC	3900	
AGGCACCTAA	GTCTGTCATT	GATTTTGGTT	TATGGA			3936	
(2) INFORMATION FOR SEQ ID NO: 203:							
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 3230 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear							

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 203:

CATCCAGCAA	CTGCTCCTCT	GAGCGTTTCA	AAATTGATGT	AATTTTTCTA	GTTTTTTCTA	60
ATAAATGTGC	CATTTTTCAC	CTCGAATTTA	ATCGCTATCA	TTATAACATA	AAAACGTCTC	120
TTTTTCAATA	ATTATCTGAA	AATTCCTTAT	TGACTTGCAT	TGACTTACAA	тттааттааа	180
AACCAGAATA	TTTTTAATTA	AATTGTTCCT	TTTCTATTGA	CAAGTTGCCT	ATTTTTGTGT	240
ATCATAATAT	TATAAAAGAT	AATATAATAA	TTTTATTTGT	CTTTTCACAT	TCGGTCTCCT	300
тататааааа	AGCGATTCAT	TTTGAACCGC	TTTTTCTTAT	TTATCGCCTT	TGTTACGAAT	360
AACAAAGCCT	GTTTGCTTTT	CGCTTAAAGT	ATTGCGTGGT	TTTTTATTAT	CCTTACGGTA	420
ACGTTTTTCC	TTATCAAAAC	GATCGTTGCC	ACGACTTCCT	TTTTTGAACT	CATCACGGCG	480

ACCATTGCCA	CGGCGATCAC	GCTCTCGACG	GTCGTCCCCA	CGACGGCCTC	CACGACCTCC	540
TTAGCTTTA	CCACCGAAAC	CATTACCTGA	TGGTTTAAAC	GGTAGTGGtT	TTTCACGTGC	600
ATCTCCACT	TCTGGAAGGC	TATCTGGGTC	TTGGACTGTC	AGACTCAAGA	TATACATTGC	660
CAATTCTTCT	GGAGTAAACT	CAGCAGCCAA	TTTGCGAGCA	TCCTTACCAA	ATTTCTCAAA	720
ETTGGCACGA	ATGGTTTCAT	CTGCAAAATC	ACGTTCGATT	TTCTTGAGAG	CTACCTGTTT	780
TTTGATTGG	AAGGATTCTT	CTACACTTGC	AGGTTTGAGA	CCTTTCATGC	GTTTCTTAGT	840
AAGTTTTCA	ATGATTTGAA	GGTAACCCAT	TTCGTTTGGA	GCAACAAAAG	TAATAGATTG	900
CCTGACTTA	CCAGCACGAC	CTGTACGACC	GATACGGTGA	ACATAACTCT	CAGGATCTTG	960
GGAATATCG	TAGTTGTAGA	CATGGGTCAC	ACCTGAAATA	TCCAAACCAC	GCGCTGCAAC	1020
STCTGTCGCA	ACCAAAACAT	CAAGATTGCC	ATTTTTAAAG	TCACGAAGGA	CACGAAGACG	. 1080
TTGTTTTGG	TCTAGGTCGC	CATGAATTCC	TTCTGCACGG	AAGCCACGAA	TTTTCAAACC	1140
CGAGTCAAT	TCATCCACAC	GGCGTTTGGT	ACGACCAAAT	ACAATAGCGA	GTTCTGGTTG	1200
GCCACATCC	ATGAGACGAG	TCATGGTGTC	AAATTTTTCT	TGTTCCTTAA	CACGGATATA	1260
TACTGGTCA	ACCAATTCTG	TTGTCAATTC	CTTAGCCGCA	ATCTTGACAT	GTTCAGGGGC	1320
ттсатааас	TGAACACCGA	TACGTTTGAT	GGCATCTGGC	ATAGTTGCTG	AGAAAAGCAA	1380
GTTTGACGG	TTCTCAGGTA	CACGGGAAAT	AATGGCTTCG	ATGTCTTCAA	GGAAGCCCAT	1440
TTAAGCATT	TCATCCGCTT	CGTCAAGGAT	AAGGGTTTCA	ATGTCTTGTA	ATTTCAAGGC .	1500
TTGCGTTTA	ATCAAGTCCA	AGAGGCGACC	TGGAGTTCCC	ACCACAATAT	GGGCACCAGA	1560
TTAAGAGCC	TTAATTTGTT	TTTCAATGCT	TGATCCGCCA	TATACTGAAC	GGACTTTGAC	1620
CCCTTACTA	CGACCAAAGC	GGAAGAGTTC	TTCTTGACTT	TGGACAGCTA	GTTCACGAGT	1680
GGAGCGATG	ACCAAGGCTT	GGATAGTCGC	TTCTTCTGTA	CGGATTTTTT	CAAGGGTAGG	1740
AAGCCAAAG	GCTGCAGTTT	TTCCTGTACC	AGTCTGAGCT	TGACCGATAA	CATCCTTGCC	1800
TCAAGGGCC	AAAGGAATAG	TTTGTTCTTG	GATAGGACTA	GCTTCTACAA	AACCAGCTTT	1860
TCAATTTCT	GCTAGCAAAT	CAGCAGACAA	GTTTAATTCA	TTAAATTTCA	CGTTATTCTT	1920
TTTCTAAAG	GTGGTGCGAA	GCCACCCTAT	AGGGCTTAGT	TTATACTTTT	CTTTTTATGA	1980
GTATTTTCA	TATAACTAGA	TATAAAATCG	TGTTGCTTCT	TTTCCACAAA	AGAAAAGTAC	2040
GTTTTCTTT	GCAACCTATC	TAGTATAACA	CAAGACCAGA	GCAAAAGATA	GCCCCATTTC	2100
'ACAGAAAAT	CATGTAAGCG	CTTTTTGACT	TTCTTTTTTG	ATTGAACGAC	CTAGATAATA	2160
GACAAAGCC	AAGGCGATAC	ТСТАТАЛААТ	GAGAAAAACG	AACAAGGTTT	GTGTGTACGA	2220

			1186			
ATGAGCCATT	TTATAAGTCT	CTGCTAATAA	AATAGGTCCC	GCTAAACCAG	CCATTGCCCA	2280
AGCTGTTAAA	ATATAACCAT	GCAGAGCGGC	CAATTCCTTG	GTTCCAAAAA	TATCACTGAG	2340
ATAAGCTGGA	ATCAAAGAAA	AACCAGCTCC	ATAGCAAGTC	ATCAAAATAG	ACATAGCAAC	2400
ТАСАААТААА	ACGGAATCTG	TAAAGAGCCA	AAGTGAGAGA	GAAAAGAAAA	GATTGACAAG	2460
CAGTAATATA	CTAAAGGTTA	GAGGGCGACC	GATATAGTCA	GACAAACTCG	CCCAGAGCAA	2520
GCGACCAAAT	CCATTGAAAA	TCCCCAAAAC	ACCCACCATT	ACTGCTGCAT	GACTTGTAGA	2580
CAAGCCAGCC	ATCTCCTGTG	CCATTGGCGA	TGCCGCTGAA	ATTAAGCCTA	AACCACAAGC	2640
TATGTTGATA	AAGAAAATAA	TCCAAAGCAT	ATAAAACCGA	TTGCTTTTTA	GAGCCTGATT	2700
TGCAGCCATT	CCTTGCGTCA	AAGAGGCTGT	TTTTTCTTTC	CCTGAAGAAG	ATAAAATTGC	2760
AAGCTCTTGC	TCATTTGGAC	GCTTAATGAA	TTGTGAAGCT	AGGAGCATGA	TAATAAAGTA	2820
ACTTGCTCCT	АААТАТААА	AAGTTTCTAC	AAGCCCTACC	CCTGCGATGA	GGTGTTGCGC	2880
TATGGGACTA	GTCAATAAAG	AAGCAAAACC	AAACCCCATA	ATCGCTAAAC	CTGTTGCGAG	2940
ACCACGTTTA	TCAGGAAACC	ATTTTATAAT	CGTCGACACA	GGGGTAATAT	AGCCTGCTCC	3000
CAAACCAAGC	CCACCTAAAA	TGCCATAAGC	GAGATACAAC	AACCACAGCT	CTGACGGTCT	3060
ATTGCAAATC	CTGTTAAGAT	ATTTCCACCT	GCGTATAGAA	AAGCAGATAG	ACTTCCCATG	3120
ACTTTCGGAC	CAAATTTTTC	TACCAAACGC	CCCATAAATG	CAGCCGATAA	GCCCAAACAA	3180
AAGATTGCTA	GACTAAAGGC	GAAGGCAACA	GAAGCCTGAT	CCCATCCCGT		3230
(2) INFORM	ATION FOR SE	EQ ID NO: 20	04:			

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 5096 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 204:

CCTATGAAGA	CTGTCCCAAC	TGGGTGTCCT	TCTAGGCTAT	CTGGTCCTGC	CACTCCAGTC	60
AAACTAATTC	CAAAATCAGA	CTGGGTCTTG	CTTCCTCCCT	GCTCAGCCAT	CTTCTGAGCT	120
GTAAATTCAG	ACACCACACC	ATGTTCTTCC	AAATTCTTGG	CAGGAATATC	CAACATCCTT	180
GATTTTTCCT	CCAAGCTATA	GGTCACAAAA	CCACCCTTAA	ATATACTTGA	AACTCCAGAA	240
AAATTCGCCA	CGGTAGCTTG	GAAAAGACCT	GCCGTCAAAC	TCTCTGCAGC	CGCGATGGTT	300
TTCCCTTGCC	TTTTCAGTTC	TTCTACCACA	ATGCTGGCTA	AACTAGTTTC	TTCCCCATAA	360
CCATAGCAAA	AGTCTCGTAA	AGAAATTCCT	TCGAAAGTCT	GGCAGTCCAA	GATTTGATTT	420

rccaagat:	ΑT	CCAGCGCTTG	ATTCGCCTCT	TCTTGACTGC	TAGCCTTTGT	TGACAGACGT	480
AGAGTGAC	TT	CTCCTGTCTT	GGCATAAGGG	GCCAAGGTAG	GATCGATCTG	ATTATCAATT	540
AAATCAGC	CA	AAATCGTAAC	CAACTGGCTC	TCGCCAATCC	CAAAGAAACG	AAGAACTCGG	600
GAATACAG	СТ	TGCTCCCTGT	CATCAACTTG	GGTAGAAGTT	GGTTTAAGAC	CATGGGTTTC	660
AATTCACT	TG	GCGGACCTGG	AAGGACGACA	TAGGTCACTC	CGTCTACTTC	TAATTTTCCT	720
CCAACAGC	CA	GTCCTGTTTC	GTTTGGCAGT	GGAATCGCTC	CTTCTACAAT	TTGAGCTTGT	780
CTTTCGTT	AТ	TCGGTGTTCG	GGCATAGTCT	GGTCGCAGGG	TAAAAAAGAT	ATCCAACTTC	840
rcctgagc(СT	GAGGATCAAA	GACTAATGCT	TTCCCTAAAA	ATTTAGCTAG	GGTTTGTTTG	900
GTTAGGTC	GT	CCTCAGTTGG	CCCCAAACCG	CCTGTCAAAA	TCACCAGACT	GCTACGTTGA	960
CTGGCAAT	СT	CAAGCAAAGA	CAAGAGACGA	ACTTCATTGT	CTCCTACAGC	CGTCTGAAAA	1020
PATACATC	TA	CCCCAATCTC	AGCTAGTTTT	TCCGACAAAA	ACTGGGCATT	GGTGTTGACA	1080
ATCTGCCC	TG	TCAAAATCTC	TGTTCCAACA	GCAATGATTT	CTGCTTTCAT	GTTTCCTCCT	1140
ACCTATCT	AТ	TCGTATTTTT	TTGAAAAAAT	CGCAGGAATT	TTCCTACGAT	TGATTTTTTT	1200
ATTTGTAT(CA	AAAGTTAATT	ATCTTCATCA	CCAACAGGTG	CTCTGCCAAA	ТАААТСТТСА	1260
ATAAAAC	CG	CATTGGTTTC	AAGCTGAGTA	ACTTCTTCTT	GTCCCAAAGA	ACGTCGGAGT	1320
AGATTTTG	CA	TTTCCAACAT	ATGTGCTCTC	GAAACAATCT	GGTAAGAAAC	ACCTTGAAGT	1380
ATCTCTCC.	ТT	CACCCTGCAA	CTGCTGAGTT	TCAATGGTTT	TAAATGAATC	TTTATAGCCT	1440
AGCAAGTT!	AG	GGATACTTTT	TGCAGACAAA	TCAATATTGG	TCTGCATATT	GTCACTCAAA	1500
GCTTTTAG/	AA	TCTCTTGATA	ATGACCAATG	CTATTTAAAC	TGAGAGCTTT	TTCCATGACT	1560
rtttgaat <i>i</i>	AA	CTTCACGTTG	ACGTTTTTGA	CGACCATAAT	CCCCCTCAGG	ATCTTGGTAA	1620
GCATTCG!	TG	CATAGACTAG	GCCTTCTTCT	CCCCCAATAT	GTTGCTCCCC	AACACCGATA	1680
Gaaatagt <i>i</i>	ΑT	TAAATTCTTC	TTGGTCACTG	ATAGAAATTG	GGAAACCTAG	GATATTATTG	1740
ACTGTAAT!	AC	CTCCTACTGC	ATCCACTAGT	TTTTGCAATC	CTCTCATATT	GACCATCACA	1800
PAGCGATC	AA	TATGGATATT	CATCATTTT	TGAATGGTTT	CTATAGCAAG	CTCTGCTCCA	1860
CATCTGC	АT	ATGCTGAGTT	CAGTTTCGCT	TCATGAGCCT	GACCATTCCC	TGATTCAATG	1920
CGCGTCAG	AA	TATCCCGCTC	TAAACTCATC	ATTGTTGTTT	TTTTCGTTTT	AGGATTCACT	1980
STCATCAA	GA	TCATGCTATC	ACTTCTACCG	ACCCAAGTTT	CAGTTCGTTC	AACATTTCCG	2040
TGTCCAC	TC	CCATTAACAG	aatggttaga	GGTTCAGTCG	CTTCAATAAC	CTTGGTTTCT	2100
CACCGATT	ГT	TTTTATAGGT	TTTAGCTAAG	GTTTCTGTCC	СТТСТТСАТА	ААТАСТАТАА	2160

			1188			
GCAAAAACAC	CTACTCCTAC	TACAGTTACA	GAAAGTAAAG	CTAGCACCAT	TCCAATAATT	2220
TTTTTAACCA	TATTTCTACT	AACCTATCAG	TTTACCCATC	AAGTAAACAT	CGATAAATTT	2280
CCCTTCTTCT	ATATATGCCC	CACGCTCTTG	GCTACCTTCA	ATGACAAAGC	CATGCTTTTG	2340
ATAAAGATGG	ACTGCTGCTT	GATTACGAGT	TTGGACAGTC	AGTTGGAGAC	GACGCAGAAT	2400
GCCACTTGCT	TGTGCCCACT	CTATCGCTTC	TTCTAGCAAC	AAACTTCCCA	AGCCATTATT	2460
CCAATATCTT	TTTCCAATCA	CAATGAAGAG	ATCTCCAATA	TGACGGACTC	TCTTACGCTG	2520
ATCAGCTGTA	ATATTTACAA	TACCAGCAAT	TTTGCCATTT	AAGAATGCAA	GTAAGGTTAT	2580
CTGATTGTCC	GAACTAGCTT	GCTTGTTGAG	GAATATTTCC	ATCTCCTCAC	TAGTCAAGAG	2640
AATACCATCT	CCGTCTAGGC	TGGTAAAGTC	TGTCTCCAAA	CTCACACGAT	TTAAAAAGGC	2700
CACTAATTCA	GCTGCATCTT	TGGGCTCTGC	TTCCCTAATG	AGCAATTCAT	ACTCCATATT	2760
GAAGCTCCTC	TAACAATTTC	TCAGCACGCA	AACCCTTTGC	CTGAAAATTT	AAACGGCGTC	2820
CATCTGCTTC	TTTTAGAATT	TCCAATTCTA	AATAAGCATC	TGGCAAGGCA	TCTCCTAAGA	2880
GATTTCCCCA	CTCAATAACA	GTCACGCCGC	CACCAAAGAT	AAACTCATCC	AAGTCGATAG	2940
AATCAGCATC	TCCTTCAATA	CGATAAACAT	CTAGGTGATA	AAGTGGAAGT	CGACCTTCAT	3000
ACTCTCTCAC	GATAGTATAG	GTGGGACTTT	TAATCATTTG	AGAAATCTGT	AATCCTTTTG	3060
CAAGTCCTTT	AGTAAAGGTC	GTTTTACCTG	CACCCAGTTC	TCCAGTTAAG	ATTAAAACAT	3120
CATTCTTTGC	TAATAGATGG	CCCAAACGCT	CCCCTAAGGC	TTGCAACTCT	TCTTCATTTT	3180
TTGTGTACAT	ACTCTTATTA	TACCAAAAAC	TTTTCTTTTG	TGTCTATTTT	CCTACTAAAC	3240
TTATCATCAT	AACATCCATA	AAAAACAGGC	TTTCTCTAAA	AGAAAATGAG	CGTAACAATG	3300
ACCAATACAA	GATCTCGGAA	AATATGACCA	TAAAAGGAAA	CTTCCTTCTT	AACCGAATTT	3360
GGGACAAGAT	AGGCTGCAAA	AAACAAGCCC	AGTCCAATAT	AAATCAGAAG	TGAGACAATG	3420
GTCATTGGAT	TTCTTAAGAA	AAGAAGTGTT	GCTAAAATAG	TCACCAACAC	TGTCTTTTTT	3480
CTGTCCAGCA	TAGCAAGAAA	ATCGCGCACG	TATTTTTCA	AGGGTAAAAA	AATCAGCAAA	3540
TCTAGCCCAA	ATAGGAAAAA	GAAGGATGGC	AATAAAAAGT	CAACTAATTC	TTGCTGCAGC	3600
GTATTTTGA	TGAACAAGTT	ATCTGACAAA	ACAAGAACAG	CTCCTAACAA	ATTAATTAAG	3660
AGTAACATAC	TGTAAAAAAG	CTTCACCGAC	TTCTTACTGG	CTAGGACACT	ATGGACTTCT	3720
TGCTTACGGG	TATAAAGATA	ATTTACTCCA	GCACAGATTC	CTGAAACGAA	AACCATGCTT	3780
CCGATGAAAA	AAGCTGTACT	TTGTTTAAAG	GACAAGATGC	ATTCCTTCCA	TAGGAAACAG	3840
CTACTCAAAC	TGATTTGAAT	TAAAGCTAAC	AAAAATAAGA	TTCTCATTGA	TTTCATCTTC	3900
TCTCTCCCTT	CCTACCAATC	ATTATACTAG	GAGAAAAGAG	AGAACTGTTT	CTAATCTTCT	3960

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CAAATGTCTC	TTTAAGACGC	TAAACAAACA	CTAGAGACTA	ATACTCAATG	AAAATCAAAG	4020
ATCAAACTAG	GTAGCTAGCC	ACAGGTTGCT	CAAAACAGTG	TTTTGAGATT	GCAGATAGAG	4080
CTGACGTGAT	TTGAAGAGAT	TTTCGAAGAA	TATAAATTTG	AAATCATGAA	AATCCGTCAA	4140
ACGGGTGGTT	GTTTTGTCTC	GCACCTCACG	GAGCGAGACG	GACTCAGAGT	CACATAATTA	4200
TAAGGCTGAT	AGTATTAATC	TAACTATCAG	CtTmCAGGTT	ATTTAACGTT	TCAGAAAAAC	4260
TATAATGTCA	AGATTAACTA	AACAGTATCT	AGTTCCTTCA	AATAATTTTC	TATCTTCATC	4320
AACATTAAAG	GATTGTTATA	AATCTTACAT	AACTCTCTTG	СТТСТАТАТА	ATAATTTTTG	4380
ACTTGTTCTC	TGTCTAGAAA	TTTGGCTCCA	GCATTTCCTA	CAAGAATAAG	TAGAGGAGCC	4440
AATTGGTAGC	TTGTCTGTCT	TTGTTTACAG	AGTTCAATCG	TTTCAAGAGC	TTCTTGGATG	4500
GCTTCATTAT	ATTTTTCCTT	TGATACTAGG	TAGTGAGCGT	AGTTGTAACG	AACTCTGATG	4560
TAGCCAAATA	AAAACTCTTG	ATGGTCCAAA	TTTTTTGTCT	GATACAACTC	TATTAAATGA	4620
GAGTAGTTTG	CCTCATATTC	TTGTTCACGA	CCCACTAAGG	AATAGAAATT	AGATAGAGTA	4680
TTCAACGCCT	TTAAATAAAT	CAGAGTATTT	GAAGAGACTT	TTAATAATAT	ATTITCCAAT	4740
GACGAAATTG	CCTCACACTT	ACTGTCATAT	TGATAGAAGT	CAATTATAGA	TTTAATCCAT	4800
TCAAGGTAAG	TTCGGTCTTC	TAATGTTAGA	AAAGTGCTTC	GTTCTACTTC	ТАТТТТАТАА	4860
AGATATTCTA	AATCGTCATA	ATTTCTGTCA	TCTAATAGGC	GAGCAGATAG	ATGTTTGAAA	4920
TTAGAGAGGT	TAGACTTAAC	TTCGATTTGT	TCATTGAAAA	AGTAATCCAA	AGGGACTTCA	4980
AGTCGTTGAG	AGAGTTTGAA	TAACAAGTCT	GCGGAGGGAA	TAAAATGACC	TCTTTCAATT	5040
TTACTAATCT	GGCTTTGTTC	ACAAATTCCT	TCTGCAAGAG	TTTGTTGGGA	GAGTCT	5096

(2) INFORMATION FOR SEQ ID NO: 205:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2395 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 205:

ACAAGATAAA	AATAAAGGAT	TACAATGGGG	AATATAAAGT	AAACCGGTAA	ACCTAAAAAG	60
AAAGGAGAAA	AGATGAAAAT	TGTACTTGTA	GGGCATGGAC	ATTTTGCTAC	AGGGATTTAT	120
AGTTCTTTAC	AATTGATTGC	AGGTAATCAA	GAAAATGTGG	AGGCGATTGA	CTTTCTGGAA	180
GGAATGTCAG	CAGATGAACT	CAAGCAAAAA	ATCTTACTTG	CAATTTCAAA	TGAAGAAGAA	240

			1190			
		CTTGGGAGGA				300
GGAGAAAATC	CAGCCAAGAC	AATGAATGTT	CTCTCGGGTT	TGAACTTAGC	CATGTTAATG	360
GAAGCAGTCT	TTGCTAGAAT	GGCTCATAGC	TTTGATGAGG	TTGTTAATAA	ATCAGTAGTG	420
GCGGCCCAGG	GCGGAGTCGT	AAATGGTAAA	GAATTGTTTT	CAACGGATGC	AGAGGAAGAG	480
GAAGAAGATT	TCGAATCGGG	TATTTAAAGG	GTAAAAGAAT	GATAAAAAAG	GTTACGATTG	540
AAAAAAAA	ATCGCCTGAG	CGCTTCTTAG	AAGTACCACT	TCTGACGAAA	GAAGAAGTCG	600
GCCAGGCAAT	CGATAAGGTT	ATTCGGCAGT	TAGAACTCAA	CCTTGACTAT	TTCAAGGAAG	. 660
ATTTCCCGAC	GCCAGCTACC	TTTGATAATG	TCTATCCAAT	CATGGATAAC	ACGGAATGGA	720
CCAATGGTTT	CTGGACAGGA	GAACTGTGGT	TGGCTTATGA	ATACAGTCAA	CAGGATGCAT	780
TTAAAAACAT	CGCTCATAAA	AATGTTCTTT	CTTTCCTGGA	TCGTGTCAAT	AAGAGAGTAG	840
AATTGGATCA	CCATGATCTC	GGCTTCTTGT	ACACACCGTC	TTGTATGGCT	GAATATAAGA	900
TAAATGGAGA	TGGAGAGGCT	AGAGAAGCAA	CCTTGAAAGC	TGCAGATAAG	TTGATTGAAC	960
GCTATCAAGA	AAAAGGTGGT	TTTATTCAAG	CTTGGGGAGA	CTTGGGCAAG	AAAGAGCATT	1020
ACCGTTTGAT	TATCGACTGC	TTGCTCAATA	TCCAACTCTT	ATTCTTTGCT	TATCAAGAAA	1080
CAGGCGATCA	AAAATACTAC	GATATTGCAG	AAAGCCATTT	CTATGCTTCA	GCTAATAATG	1140
TAATCCGTGA	TGACGCTTCG	TCCTTCCACA	CCTTCTATTT	TGATCCTGAG	ACAGGTCAAC	1200
CCTTTAAAGG	TGTAACGAGA	CAAGGGTATA	GTGATGATTC	ATGCTGGGCA	CGTGGTCAAT	1260
CATGGGGAGT	CTATGGTATT	CCTTTGACTT	ATCGTCACTT	AAAAGACGAG	tCCTGCTTTG	1320
ACTTGTTTAA	GGGTGTGACC	AATTATTTCT	TGAATCGTCT	GCCAAAAGAT	CATGTGTCCT	1380
ATTGGGATTT	GATTTTTAAT	GATGGTAGTG	ATCAATCACG	AGATTCTTCA	GCAACAGCTA	1440
TCGCCGTCTG	TGGGATTCAT	GAAATGCTAA	AACATCTCCC	AGAGGTGGAT	GCTGACAAAG	1500
АТАТТТАТАА	ACATGCTATG	CATGCCATGC	TTCGTTCCTT	GATCGAACAT	TATGCAAATG	1560
ATCAATTTAC	CCCTGGTGGG	ACAAGTCTCC	TCCACGGTGT	GTACTCATGG	CATTCAGGTA	1620
AAGGAGTGGA	TGAAGGCAAT	ATCTGGGGTG	ACTACTATTA	CCTAGAAGCC	CTTATCCGTT	1680
TCTACAAAGA	CTGGAACCTA	TATTGGTAGG	AGGAGAAATA	TGACAATGCC	AAATATTATT	1740
ATGACCCGTA	TCGATGAACG	GTTGATTCAT	GGACAAGGAC	AACTTTGGGT	AAAATACCTA	1800
GGTTGTAATA	CGGTCATTGT	TGCCAATGAC	GAAGTAAGCA	CGGACAAGAT	GCAACAAACT	1860
CTGATGAAAA	CAGTTGTGCC	AGACTCAGTT	GCCATGCGTT	TCTTCCCTTT	GCAAAAGGTG	1920
ATTGATATCA	TTCACAAGGC	TAATCCTGCT	CAAACGATCT	TTATCGTTGT	AAAGGATGTG	1980
AAGGACGCTT	TAACCTTGGT	AGAAGGTGGT	GTCACTATCA	AAGAAATCAA	TATTGGGAAC	2040

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ATTCACAATG	CCCCTGGTAA	AGAGCAAGTG	ACACGCTCCA	TCTTCCTGGG	TGAAGAGGAC	2100
AAGGCGGCCC	TCAAGGAATT	GAGCCAAACT	CATCAAGTAA	CATTTAATAC	GAAAACAACT	2160
CCAACAGGAA	ATGATGGAGC	TGTTCAAGTC	AACATTATGG	ACTATATTTA	ACAGAGGAGA	2220
TCGTTATGTC	GATTAATGTA	TTTCAAGCGA	TTTTAATTGG	ATTATGGACA	GCTTTCTGTT	2280
TTAGTGGAAT	GCTGTTAGGA	ATTTACACCA	ATAGATGTAT	TGTTCTGTCA	TTTGGTGTCG	2340
GAATTATTCT	AGGTGATCTG	TCATGCTCTT	GCAATGGGAG	CCAATGGTGA	ATTGG	2395
401						

(2) INFORMATION FOR SEQ ID NO: 206:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3342 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 206:

CCTTCTTTAG AGGTTAATTT TGCAAAATCG TCGATTGTTA TATAAGGATT ATTATAGAGA . 60 CTGTTCGCAA AGAATCTCTG ATATGTTTTT GAATCTTTTG AATACAAAAC TATCTCTCTA 120 ATAGCATTGC CATCTGTTCC ATCAATTGGT AAACATACCG TAACTAGAAA AAGAATTATA 180 TTCAAAATAA AAAATTCTGA TGCGTACGGC ACAAATCCCA AAAGTGCTAA TATTGCGACA 240 ATTAGGTTAG CTCCACCTCC CCCAAAGAAG TAGAACACCA AATTCCTATC ACTATTTTTT 300 TCATTAGTAA TGTTTCTATT ACTCATTTGA CAATAACCGA ATGCTAATAA CACTGGAAAT 360 TTGAAATATA TTTTTTTCT GAAATAGAAG AAAAAGGGAG TAGCAAGCAT CTCTAGTTTA 420 480 GAAATTAAAA TCAATCGAAA ATAATAGATT AATGAATCAT TTGGAAAAAT TATCAATAAT 540 AGGAACAATA ACGGAATCAA ACATAAATAT ATGACAGAGT TATTTAATAT TTTCAACATA 600 ATACCATTCC TCTAAACTAT TAGCTTCAAA AAGGCGTTTT TTCTCCCAAT ACATCTTCTC 660 AAAATGTTCG GAATCATAAT TTTCTAAAAT TAATTTTALG TCTGGTAAGC TCTTTCTTGA 720 TAATCCGTTG TTTTGTACTT AATTTTCCCT TCAAGTACAT CTTCAATTTT ATAAGTTGCC 780 TCCATCAACT GAGCCTCTGC AATATCTTTG AGTGAATTGG TAATTGAAAC TTGGTGTAAT 840 ATCTGTCCts CCATATATGA AAATATATCT CTAAGATATT CTGACACATT ATCAGAGCCG 900 TTACTCTCAG CAACATCTAA TGTTACAACA AACTTTCCAG CTAATCGAAA AAGATGGCTC 960 CACCCCCAA TCCTTTCAAT AAAGTTTTTT GTGTCCACAG ATACGTTTTG TAAATATACA 1020

			1192			
GGAGAAGAGA	TAATTAAT	ATCAGACTCT	AATAACTCTT	TTTTTATAAC	ACCTCCATCA	108
TCAGCATTAC	TTTGCCTATC	AATTCCTTTC	TTAAACAACT	CTTCTGAATC	AGAATTAGAT	114
ATTTCTAGCT	CTGAATTGAA	AGGTGTCCTG	AAAGATATAT	CAACATTATT	TCTACTAGAA	120
ATGATACTTG	AAAGTCTCTT	AGTATACTCT	AAAGTCTTAG	AGTTATGATT	TCGCACTCCT	126
GCATATATAA	ATATTTTATT	CATTITAATT	CATCCTCTCA	ATTTGAATTT	AGTAGATTTT	132
TCAAGATAGT	ATGGTACAAA	AACAGACTTT	TGTTGACTCA	CATTATTACA	TATGTTTTGT	138
ATTAAACCAA	AATCAATACT	ATTTTTGGAG	TAATTTTGAT	TTTAGTTTAA	AATCATTTCT	144
ATAACAGTAG	CATATACCTC	AAGCCGTTTA	GCAATTAGAA	TAGAACTTTT	СТТТАТТАТА	150
ттаттатстс	AACGAAAAGC	TACACTATTA	AAAA TATTTT	ATAGAATTAC	АТАТТАААСТ	156
AGTCAATCTT	GGTATTTTTA	TATTGCTTAA	TGAGTGGACA	CCTCTATTTT	AGAAACAAAA	162
СТАТАААТТА	AGCTAGATTT	CAAGTAATGA	GGGGATAACT	ATCTTTTTGT	CATTCTGATT	168
CAGTGCGATA	TACCTTAAAA	AAGTATAAGC	AATACCAGTC	ACACCTGTAT	ACAAAGAAAA	174
ATCTGGGAAA	TTGCTTGTTT	GGACGATACG	ATACTCTCCT	TCTTTTGATT	TATTCATTAC	180
AACACTACAC	AATAAAGACT	CCAATTCCAT	ACTAGTATCC	ATTTCTTTCA	TGTAGTCGAT	186
GTAAAAATTT	ATTATGGCCA	TACTTCCATG	GCAAAATGTA	TCATTATCTA	AACTAGCTAC	1920
AATTCCCTCT	GGAACACTTT	GGGGATGATT	AACTAATGTC	CCAAATTCTC	CACTACACCA	1986
CTTCAAAGAA	TGAAȚTTTGA	TTTTCTCCCT	AGGAACTAGT	TGTAAAATTA	ATTCTTTATA	2040
TTTTTTAAGT	CTTGTCACTT	TATAAATATT	TTTTAATGTA	AAAATTACAC	CTGATAGTCC	210
ATGGCCAAAA	CTATATCCAA	AATTACTATT	ATCTCTCTCG	CTTACATCAT	TATATAGCGT	216
ATCACCTAAA	CTTAATACTA	GCCTTAGAAC	ACGTTCCTTC	TCTATTCCTC	TCCTATAATA	2220
TCTTACCAGT	GTATTAATTA	AAGGTAGAAG	ACCATTAATA	TAGTCAGACT	TGTTTGAAAC	2280
ACTTGCAAAA	TCAGTCTTTT	CAAGCTCAGT	TAAAACACTC	TTTATATAAT	TTAAGCATGC	2340
GAGAGTATTT	GTATCGTAAT	CCTCTATAAT	GGATAGAACA	ATGAAATATC	CTATATCCCC	2400
AGTTAAACCA	AATGTGGTCT	TAGATAAAGA	AACAGATGGC	GGAATTGCAG	ATAACATTTT	2460
ATTGTACAGT	TGAGTATATG	ATGATTTATC	TTTCAATAAT	TTTACATAGT	ACATAAACAG .	2520
TAATATTCCA	GCTCTACCCC	TATACATATC	ATTmCCCGTT	TGTTCAAGAC	ACCATTTAGA	2580
ACCTTTAAAA	TTAACAGGTA	TACTCCAAAT	TGGATATTCG	TCATAAATAT	TATTAATAAC	2640
CAAAGAGTCT	GCAATATTTT	CTACTTCATT	ATGCAGAATA	GTAACTAAAC	TTTCATTTGG	2700
GAGTTTTTTT	CTATTAGATA	AGTTTAATTT	ATATCCTTTT	TTTCGCTGAT	CAAAGCTTGG	2760
TTAAATAAAA	TCAATGATAT	CAAGTTGCTT	TTCTAAATTT	TCCAAATTAT	TATTAGGTAA	2820

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АТАТТТСАТА	AAATAGTCAT	ATCCAGAAAA	TTGATGTAGG	GAAATAAAAT	GATTTCCAAA	2880
ATCATCGTAG	ATTTCATTGA	TATTTGTATC	TGTATAAAAA	ATCGGAATAT	CTAATAACCT	2940
CATTTGTTCA	CATTCGCTTG	CTACAATACC	TTGATTAGAA	AACTTATTGC	TCCAGAGATT	3000
TTCCAATGCT	TTTTCTCTAT	CTAACATTTC	TTCATAAAAA	TCAGGATGAT	ATAAAAAAGA	3060
TAGTACTGAA	GCATAGCTAT	TTGTGTCTCT	AAAAAGTACC	CTTGTCTTTA	AACCATACAA	3120
GTTTGCTTTT	AATAGCATTT	TAAATTCTTC	TGTTTTATTT	AACTCTTCAA	ATATCAGATA	3180
AAAATCCCTA	AAACCTTTTT	TGAAATCTTT	ТАТАТАСТТА	TCAAATTCTA	TATCACCATC	3240
CCGAACAGGC	AGGTTTTTCC	CACCTTCAAA	ATCAATTTTC	CCAATATCAA	ACTTTACCTT	3300
ATCAGTATTT	AAATTAATTA	AAACTTGACC	AGGGATCCTC	TA		3342

(2) INFORMATION FOR SEQ ID NO: 207:

- (i) SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 3454 base pairs

 (B) TYPE: nucleic acid

 (C) STRANDEDNESS: double

 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 207:

GAGAAAAGAA	TGTTAAAGAA	AAATGATATT	GTAGAAGTTG	AAATTGTTGA	TTTGACCCAT	60
GAAGGGGCAG	GAGTTGCCAA	GGTAGATGGT	TTGGTCTTTT	TTGTAGAGAA	TGCTTTACCG	120
agtgaaaaa	TTCTCATGCG	TGTCCTCAAG	GTCAATAAAA	AGATTGGCTT	TGGAAAAGTT	180
GAAAAATACC	TTGTCCAGTC	ACCACACCGT	AATCAAGATC	TAGATTTGGC	TTACCTGCGT	240
TCAGGAATCG	CGGATTTAGG	ACACCTTTCT	TATCCAGAAC	AGCTCAAGTT	TAAAACCAAG	300
CAAGTCAAGG	ACAGTCTCTA	CAAGATTGCT	GGAATTGCAG	ATGTAGAAGT	TGCTGAAACG	360
CTTGGTATGG	AACATCCAGT	CAAGTATCGC	AATAAGGCGC	AGGTGCCCGT	TCGTCGAGTG	420
AATGGTGTCT	TGGAAACAGG	ATTTTTCCGT	AAGAATTCGC	ÁTAACCTCAT	GCCCCTTGAA	480
GATTTCTTTA	TCCAGGATCC	TGTCATTGAC	CAĀGTCGTAG	TAGCTCTTCG	AGACCTGCTC	540
CGTCGTTTTG	ATTTAAAACC	TTATGACGAA	AAGGAACAGT	CTGGATTGAT	TCGGAATCTT	600
GTGGTGCGTC	GTGGTCACTA	TTCAGGACAA	ATCATGGTCG	TTTTGGTGAC	AACTCGTCCA	660
AAAGTTTTTC	GTGTTGACCA	ATTGATTGAA	CAAGTTATCA	AGCAGTTCCC	AGAGATTGTG	720
TCTGTCATGC	AAAATATCAA	CGACCAGAAT	ACCAATGCGA	TTTTTGGTAA	GGAGTGGCGC	780
ACTCTTTATG	GTCAAGACTA	TATTACGGAC	CAGATGTTGG	GAAATGACTT	CCAAATCGCT	840

			1194			
GGCCCAGCCT	TTTACCAAGT	CAATACTGAA	ATGGCGGAGA	AACTCTATCA	AACAGCCATT	90
GACTTTGCAG	AGTTAAAAAA	AGATGATGTG	ATTATTGATG	CCTATTCTGG	TATTGGAACC	96
ATTGGTTTAT	CAGTCGCCAA	GCATGTCAAA	GAAGTCTACG	GTGTTGAACT	GATTCCAGAA	102
GCAGTAGAGA	ATAGCCAGAA	GAATGCTTCT	TTGAACAAGA	TTACTAATGC	CCACTATGTC	108
TGTGACACGG	CTGAAAATGC	CATGAAGAAA	TGGCTCAAGG	AAGGTATTCA	ACCAACCGTT	114
ATCTTGGTTG	ATCCTCCACG	CAAGGGCTTG	ACAGAAAGCT	TTATCAAAGC	AAGCGCCCAA	120
ACAGGAGCCG	ATCGCATCGC	CTATATCTCC	TGCAATGTCG	CAACCATGGC	GCGTGATATT	126
AAACTATACC	AAGAGTTGGG	ATATGAATTG	AAGAAAGTCC	AGCCGGTGGA	TCTATTTCCT	132
CAAACGCATC	ACGTCGAGAC	GGTAGCACTT	TTGTCCAAAC	TCGATGTCGA	TAAGCACATA	138
AGTGTTGAAA	TTGAGCTGGA	TGAGATGGAT	TTGACAAGTG	CGGAGAGCAA	AGCAACATAT	144
GCTCAAATCA	AAGAATATGT	TTGGAATAAA	TTTGAATTAA	AAGTTTCGAC	АТТАТАТАТТ	150
GCACAGATAA	AAAAGAAATG	TGGAATAGAA	TTACGAGAAC	ATTACAACAA	GTCTAAAAAG	156
GATAAACAAA	TTATTCCACA	GTGTACACCT	GAAAAAGAAG	AAGCCATCAT	GGATGCTTTG	162
AGACACTTCA	AAATGATTTA	ATAGAAAAGA	ATGACAGTAT	ATGACTTTCT	GCATTTATTA	168
CATTCCTACT	TGGTATAGGA	ACAGCTATTA	TTCCTTTCTT	GCAAGGTATC	AATTAGAAAA	174
TAGGCTCAAT	ATAAAGATTG	ATAGGATCAT	TTTTATATTT	AAAGGAGCGT	TGAAATGATT	180
GATAAAGGCA	ACAAAAAATT	TTAGGATAAA	TTTGCTAAGT	TGTATGCCTC	TTTTATGAAA	186
AAAGATAAAG	AGGTTTATGA	TAAAGTTTGT	GAATATCTTA	GTCCTCATTT	GAATAAAGAT	192
ATGGAGGTGC	TTGAACTTGC	TTGTTGGTTT	CGTGTCATAA	CAGTTATAGA	GGCAAATAGT	198
TATGTAAATA	TAAGGAGTTC	AAGACTTCTA	CCAAAGTTTA	АААСТСАААА	AATAAATAGT	204
TGGTGTGCTG	CTTACAATAT	CCATTTTAAT	AATGGATATT	GTAAGCAGCA	CCCCcAtGAA	210
TTTAAAGATT	CTTTAAAGAG	TCTTATTTTG	TGATGAAAAT	TTAATATGTA	AATCTCAGAC	216
GATAGAAAŤT	AAAAACTCTA	TCGTCTTTTT	TATACTCAAA	ATTAGGAGGT	AAAAATGGTA	222
AGGATAAGAG	GTCCCACTTA	AAACAATTTA	TGGCAAAATA	AGGACGGAAT	AACACAACAA	228
ATTCTCTAAA	ACAAATCACT	AAATCAATGT	AAGATTGAAT	GAAATCAATA	TTTATGCTAT	234
ААТТАААТАА	ATTTAATGAA	GAAAAAAAGA	GGGATATTAT	GGCACTTAAC	TATAAACCAT	240
TATGGATACA	GTTAGCAAAA	AAAGGACTAA	AGAAAACAGA	TGTAATAGCT	ATGGCAGGAC	246
TTACAACAAA	TGTTATGGCA	CAAATGGGAA	AGGATAAACC	AATTACATTT	AAGAATTTAG	252
AAAGAATATG	TAAGGCTTTA	TCTTGCACTC	CTAATGATAT	TATTAGTTTT	GAAGATAATT	258
TTAGTGACGA	GGAATAGAAA	ATGACTTTAA	GGACAGAAGA	TCAAGTTAGG	GATTATGCAA	264

PCT/US97/19588 WO 98/18931

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GAGAAGTATA	GGCTTTAATG	AAGTTGAAGA	AAACATCAAT	CAAGGTACTG	GTCAAATAAC	2700
TACTTTTAAT	CAATTAGGCT	TCAAGGGATA	TTCAAATAAG	CCAGATGGTT	GGTATTTACC	2760
талалататс	AATGATGTAG	CAATAATCCT	TGAAACAAAA	TCAGAAGAAA	GAGATATTAG	2820
САААСАААТТ	TTTATTGATG	AGTTAATGAA	AAATATAGAC	ATAATTTAAC	ТАЛАЛАТАЛА	2880
AACTAGATCC	TTTTTTGAAA	AAATTATATT	ATTAAATTTG	TAACTGTATC	TATTGACAAT	2940
GATAATTATT	ATCGATACAA	TAGACTTGAA	ATATGTTTAA	GGAGTTTTTA	TGAAAaCAAA	3000
ТТТТТТСТАА	TmGCTATTTT	AGCTATGTGT	ATAGTTTTTA	GCGCTTGTTC	TTCTAATTCT	3060
GTTAAAAATG	AAGAAAATAC	TTCTAAAGAG	CATGCGCCTG	ATAAAATAGT	TTTAGATCAT	3120
GCTTTCGGTC	AAACTATATT	AGATAAAAAA	CCTGAAAGAG	TTGCAACTAT	TGCTTGGGGA	3180
AATCATGATG	TAGCATTAGC	TTTAGGAATA	GTTCCTGTTG	GATTTTCAAA	AGCAAATTAC	3240
GGTGTAAGTG	CTGATAAAGG	AGTTTTACCA	TGGACAGAAG	AAAAAATCAA	AGAACTAAAT	3300
GGTAAAGCTA	ACCTATTTGA	CGATTTGGAT	GGACTTAACT	TTGAAGCAAT	ATCAAATTCT	3360
AAACCAGATG	TTATCTTAGC	AGGTTATTCT	GGTATAACTA	AAGAAGATTA	TGACACTCTA	3420
TCAAAAATTG	CTCCTGTAGC	AGCATACĂAA	TCTG			3454
/2\ TNEODW						

(2) INFORMATION FOR SEQ ID NO: 208:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 3752 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 208:

CGGGA	STATA	CTTAATATAA	TTATAGTCTA	AAAATGACTA	TCAGAAAAGA	GGTAAATTTA	60
GATGA	ataag	AAAAAAATGA	TTTTAACAAG	TCTAGCCAGC	GTCGCTATCT	TAGGGGCTGG	120
TTTTGT	TACG	TCTCAGCCTA	CTTTTGTAAG	AGCAGAAGAA	TCTCCACAAG	TTGTCGAAAA	180
ATCTTO	CATTA	GAGAAGAAAT	ATGAGGAAGC	AAAAGCAAAA	GCTGATACTG	CCAAGAAAGA	240
TTACGA	AAACG	GCTAAAAAGA	AAGCAGAAGA	CGCTCAGAAA	AAGTATGAAG	ATGATCAGAA	300
GAGAAC	CTGAG	GAGAAAGCTC	GAAAAGAAGC	AGAAGCATCT	CAAAAATTGA	ATGATGTGGC	360
GCTTGT	PTGTT	CAAAATGCAT	ATAAAGAGTA	CCGAGAAGTT	CAAAATCAAC	GTAGTAAATA	- 420
TAAAT	CTGAC	GCTGAATATC	AGAAAAAATT	AACAGAGGTC	GACTCTAAAA	TAGAGAAGGC	480
TAGGA	AAGAG	CAACAGGACT	TGCAAAATAA	ATTTAATGAA	GTAAGAGCAG	TTGTAGTTCC	540

			1196			
TGAACCAAAT	GCGTTGGCTG	AGACTAAGAA	AAAAGCAGAA	GAAGCTAAAG	CAGAAGAAAA	60
AGTAGCTAAG	AGAAAATATG	ATTATGCAAC	TCTAAAGGTA	GCACTAGCGA	AGAAAGAAGT	66
AGAGGCTAAG	GAACTTGAAA	TTGAAAAACT	TCAATATGAA	ATTTCTACTT	TGGAACAAGA	72
AGTTGCTACT	GCTCAACATC	AAGTAGATAA	TTTGAAAAA	CTTCTTGCTG	GTGCGGATCC	78
TGATGATGGC	ACAGAAGTTA	TAGAAGCTAA	ATTAAAAAAA	GGAGAAGCTG	AGCTAAACGC	84
TAAACAAGCT	GAGTTAGCAA	AAAAACAAAC	AGAACTTGAA	AAACTTCTTG	ACAGCCTTGA	90
TCCTGAAGGT	AAGACTCAGG	ATGAATTAGA	TAAAGAAGCA	GAAGAAGCTG	AGTTGGATAA	96
AAAAGCTGAT	GAACTTCAAA	ATAAAGTTGC	TGATTTAGAA	AAAGAAATTA	GTAACCTTGA	102
AATATTACTT	GGAGGGGCTG	ATCCTGAAGA	TGATACTGCT	GCTCTTCAAA	ATAAATTAGC	108
TGCTAAAAAA	GCTGAGTTAG	CAAAAAAACA	AACAGAACTT	GAAAAACTTC	TTGACAGCCT	114
TGATCCTGAA	GGTAAGACTC	AGGATGAATT	AGATAAAGAA	GCAGAAGAAG	CTGAGTTGGA	120
таааааасст	GATGAACTTC	AAAATAAAGT	TGCTGATTTA	GAAAAAGAAA	TTAGTAACCT	126
TGAAATATTA	CTTGGAGGGG	CTGATTCTGA	AGATGATACT	GCTGCTCTTC	ААААТАААТТ	132
AGCTACTAAA	AAAGCTGAAT	TGGAAAAAAC	TCAAAAAGAA	TTAGATGCAG	CTCTTAATGA	138
GTTAGGCCCT	GATGGAGATG	AAGAAGAAAC	TCCAGCGCCG	GCTCCTCAAC	CAGAGCAACC	144
AGCTCCTGCA	CCAAAACCAG	AGCAACCAGC	TCCAGCTCCA	AAACCAGAGC	AACCAGCTCC	150
TGCACCAAAA	CCAGAGCAAC	CAGCTCCAGC	TCCAAAACCA	GAGCAACCAG	CTCCAGCTCC	156
AAAACCAGAG	CAACCAGCTA	AGCCGGAGAA	ACCAGCTGAA	GAGCCTACTC	AACCAGAAAA	162
ACCAGCCACT	CCAAAAACAG	GCTGGAAACA	AGAAAACGGT	ATGTGGTATT	TCTACAATAC	168
TGATGGTTCA	ATGGCAATAG	GTTGGCTCCA	AAACAACGGT	TCATGGTACT	ACCTAAACGC	174
TAACGGCGCT	ATGGCAACAG	GTTGGGTGAA	AGATGGAGAT	ACCTGGTACT	ATCTTGAAGC	180
ATCAGGTGCT	ATGAAAGCAA	GCCAATGGTT	CAAAGTATCA	GATAAATGGT	ACTATGTCAA	186
CAGCAATGGC	GCTATGGCGA	CAGGCTGGCT	CCAATACAAT	GGCTCATGGT	ACTACCTCAA	1920
CGCTAATGGT	GATATGGCGA	CAGGATGGCT	CCAATACAAC	GGTTCATGGT	ATTACCTCAA	1986
CGCTAATGGT	GATATGGCGA	CAGGATGGGC	TAAAGTCAAC	GGTTCATGGT	ACTACCTAAA	204
CGCTAACGGT	GCTATGGCTA	CAGGTTGGGC	TAAAGTCAAC	GGTTCATGGT	АСТАССТААА	2100
CGCTAACGGT	TCAATGGCAA	CAGGTTGGGT	GAAAGATGGA	GATACCTGGT	ACTATCTTGA	216
AGCATCAGGT	GCTATGAAAG	CAAGCCAATG	GTTCAAAGTA	TCAGATAAAT	GGTACTATGT	2220
CAATGGCTTA	GGTGCCCTTG	CAGTCAACAC	AACTGTAGAT	GGCTATAAAG	TCAATGCCAA	228
TGGTGAATGG	GTTTAAGCCG	ATTAAATTAA	ATCATGTTAA	GAACATTTGA	CATTTTAATT	2340

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TTGAAACAAA	GATAAGGTTC	GATTGAATAG	ATTTATGTTC	GTATTCTTTA	GGTACCTATC	2400
TTATGATTTC	AGGAAATGTC	AAAAAATTA	CGACTCATTT	TCTCTAACCT	GAAAAATAGA	2460
TTAGAGAAAA	TGGGTTGTTT	TATCTATTAT	AGTTATTTGA	ATGAAGmTAA	GAAGAAGGTA	2520
TACTCACATC	ATTCACATAA	TCTGTATATT	GACTATAAGT	TTTAAAAAAC	AATTTTTAAG	2580
CTCTTCCTTG	TCTTCTCTAA	CCAAGCGTGT	TATAATGAAT	ACTGCTCAAG	CGACCTTCAA	2640
TCGTGAAGCA	CACACGACCT	TCAATCGTGA	ATAAACGAAT	AGATGGGAGA	CTTACCATGA	2700
GTGATAACTC	TAAAACACGT	GTTGTCGTGG	GGATGAGTGG	TGGTGTTGAT	TCGTCGGTGA	2760
CGGCTCTTTT	GCTCAAGGAG	CAGGGCTACG	ATGTGATCGG	TATCTTCATG	AAGAACTGGG	2820
ATGACACAGA	TGAAAACGGC	GTCTGTACGG	CGACCGAAGA	TTACAAGGAT	GTGGTTGCGG	2880
TGGCAGACCA	GATTGGCATT	CCCTACTACT	CTGTCAATTT	TGAAAAAGAG	TACTGGGACC	2940
GCGTTTTTGA	GTATTTCCTA	GCGGAATACC	GTGCAGGGCG	CACGCCAAAT	CCGGACGTTA	3000
TGTGCAACAA	GGAAATCAAG	TTCAAGGCCT	TTTTGGACTA	TGCCATAACC	TTGGGGGCAG	3060
ACTATGTAGC	GACTGGGCAT	TATGCTCGAG	TGGCGCGTGA	TGAGGATGGT	ACCGTTCACA	3120
TGCTTCGTGG	CGTGGACAAT	GGCAAGGATC	AGACCTATTT	CCTCAGCCAA	CTTTCGCAAG	3180
AACAACTTCA	AAAAACCATG	TTCCCACTAG	GACATTTGGA	AAAGCCTGAA	GTACGCAGAC	3240
TAGCAGAAGA	AGCAGGCCTT	TCGACTGCTA	AGAAGAAAGA	CTCGACAGGG	ATTTGCTTTA	3300
TCGGAGAAAA	GAACTTTAAA	AACTTTCTCA	GCAACTACCT	GCCAGCTCAG	CCTGGTCGCA	3360
TGATGACTGT	GGATGGTCGC	GATATGGGCG	AGCATGCAGG	TCTTATGTAC	TATACAATCG	3420
GTCAGCGTGG	CGGACTCGGT	ATCGGTGGGC	AACACGGCGG	TGACAATGCC	CCTTGGTTCG	3480
TTGTCGGAAA	AGATCTAAGC	AAGAATATTC	TCTATGTAGG	ACAAGGATTC	TACCATGATT	3540
CGCTCATGTC	AACTAGCCTA	GAAGCCAGTC	AAGTCCACTT	TACTCGTGAA	ATGCCAGAAG	3600
AGTTTACGCT	AGAATGTACG	GCTAAATTCC	GTTACCGTCA	GCCTGACTCT	AAGGTGACCG	3660
TTCATGTCAA	AGGAGAAAAG	ACAGAGGTCA	TCTTTGCGGA	ACCACAACGC	GCGATTACAC	3720
CAGGACAGGC	AGTTGTCTTT	TACGATGGCG	GG		÷ .	3752

(2) INFORMATION FOR SEQ ID NO: 209:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3580 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 209:

60	AGTCTTTAAT	TTAGACTTAA	TGATACCTTT	TGGCATACTT	TTTTTATCTC	TATTTATATT
120	CATTTTTTTA	CATCATAATT	GATTCTCCTA	TATCTATAAA	CACCTCTTTT	AGTGCCTTTC
180	GATTGTCACA	ACCATTTTAA	TCTTCTTCAT	TTTGTCTTTA	TCTGTCTTAG	TTTAAACCTT
240	ATTTATCATT	TGGATAGTTT	TCCATGTATC	ACCACTGCTT	GATAGGTCTT	TAGTGGTTTT
300	GCTTAACCTT	ATTCTTCTTT	AGATTTTTAT	TTTTTCTTTT	GTGAGTTTAA	ATATCTGTGT
360	TCCCTCTCTC	TATCTATCTC	GTGGACTTTT	AAAAATGGGG	ATTCTCCATA	ACATTTTTGA
420	TACTGTCTAT	GGAGTACCTC	ATTCCAATCT	TTTCCATGTA	TCTCTATATC	тстттатста
480	TATATTCAGT	ATTTGATCTT	TGTGCTAGAT	CTGGCAATAC	ATTTTGATAT	CGGTAATTTA
540	TATTCAATTC	GCTACTTCTT	TAAATAGAAT	TAATTGAAGT	GCTTGCCTAA	ATTTTTTAAA
600	ATTTATGATA	CTTGCTTTAT	CATATCTAGG	AATGAATTTT	AATTTTAAAC	TTTATTTTTT
660	AATTTTTATC	AAAACTCTAT	AAAATTTTCA	AAACAGATAT	CCTAAAAATG	AAAGACTGCT
720	TAATTCTAGG	TTTGTAGCAC	ATTGTCAATA	CTAAGATACC	TCGTAGTAAC	АТСТАТАТСТ
780	CTTAACTCGA	CCTGTTGGTA	AATAGATGAG	ATCTTTTTGG	TCGAGTAAAT	AGTTTTTCCA
840	ATTTTTCCTA	GTTGTCTGAT	TPTPTATTT	TAAATATTTC	TTTTCGGTAA	TTTCCCCTTT
900	ACTTGAAGTT	ATAACTTTTT	ATTTTCyTGA	TATTTTCTAG	GTAGGATGAG	CCTGTCCTTT
960	GATCTTTTTA	TATCAGTCCT	TTTTGTTTAT	TGTACTTTCT	AACTAGTCGT	TTAGCTTTTG
1020	CTAATTTTAT	TATTCTTTTA	TCATTCATGA	ATCCTATTTT	TATTCTCTAT	ATATTGCTGT
1080	GTTTTTTGGC	CCTTTAGTTA	AAACTGACCT	TGCCATTAAA	GTGCTGTATT	CTTAAATTCT
1140	TATTCAATTA	TGAATTCCAA	GACTTTTAAA	CAAAATTTGC	AGGGTCAGTT	CTAACTTTTG
1200	AAATAGGGTC	GGCGAATTGG	AATCATTAGA	TGCCAATAGG	ACATGGTGCT	TTAAGAGTTA
1260	TTAGTATATC	AGTTTATCAT	ATCTTTAACT	GATTAAAGAT	TTTGCTTCAA	ACGTATAATT
-1320	AATCAGCGTA	GCAAATAGGT	TTCTTTAATT	CAAGTTTACC	CCCTCTGCAA	TTCAGGCTTT
1380	ATTTTTGGTT	GTTGTCTTAT	CATGCAAATG	CGTGCAAAAT	AGATTTATAT	TCTTGCTGTT
1440	AAGTAGTTGG	ATATCCAAGT	TTGATATGAG	ATAGTTCTAT	AAGAGGTCTA	TAGATCAGTC
1500	ATACTCTTTG	AGAGCTATCC	GGCTAGGGCT	TTGTATCTTG	AGTAGGATAC	CTCATCTAAA
1560	CATTGGCCTT	AGATCTTCAA	GTTATTTGCT	CTTCAACTAG	CCAGAAAGTT	CCTTTGACCC
1620	AAGGCTTTCT	AGACTCTTAA	ATCTTTTCCA	TTTCAAGGTC	CTGTTTATTA	AACCATTGAT
1680	GGATTATTGG	ATTGATTCAG	AGCTACTGTT	TTACAAGATC	CGACCACGGC	GTAGGGGAAA
1740	AATTAATTGA	TCTTTATAAG	TAAATCTTTT	TGTGTTTTGC	AATATAGCTA	AGATTGAGGT

TTTATTATCA	AGCAATACTT	CTCCCTCTAA	TGGCTTTATA	AGTCGAGACA	AGGTTTTAAT	1800
GAGTGTTGAT	TTCCCACAAC	CATTTGACCC	AATAATAACT	GATATTTTT	CTTCAGGTAT	1860
TTTTATATTT	ATATTTTCCA	AGATTATTTT	TTCATCATAA	CCGCAGGTAA	GATTATTTGA	1920
CCACAGACCT	TTCATTATAT	ATTCCTCCTG	TTCATTTTTA	TTAGTAAGTA	TATTAAGTAT	1980
GGTGAACCTA	AÇAAGCCAGT	TACAACACCT	ACTGGATATC	TAGCTGGTAA	AATATTTTGA	2040
GAGAATATGT	CTGATAACAA	AACTAGTAAA	ATTCCAACCA	ATCCAGCTAA	TATTGGGCTT	2100
CTTTTCTTGC	CAATATTTAA	GGCTATGGGA	CCAGCTAAAA	AAGATATACA	AGCTATTGGT	2160
CCTGTAATTG	AAGTAGAAAA	AGCAGTTAAA	GATACAGCGC	AAAAAATTAA	AACAAGCCTT	2220
GAAAGCTCGG	GATTTGCTCC	AAGTCCGATT	GCTATTTCTT	CACCAAGTTC	AATAATTTCT	2280
AGTCTTTTAT	TAAAAAATAA	AACTAATATA	GTAGCAATAA	TACTTACTAT	TAGAACAAGA	2340
GGTATGTCAT	CTAACTTTGT	AAAAGATAAA	GAGCCACTGA	GCCATCTCAT	AACTTCTTGT	2400
AATTCATATC	TTGCTACTTT	CAACAATAAA	AATGAGGTGC	CTGCTCTTGT	GACAGCTTGA	2460
AAACCAATAC	CTAATATTAT	CAGTCTTGCT	GCTGAAAAAC	CATCTTTTTT	AGCTAGTAAA	2520
AATAATATTA	AAGATGATGT	TAGTCCACAA	GTTATTGAAA	TAATTCCAGT	AGTTAAACTA	2580
TTTGTTTTTA	ATACCAATAT	GCAAAAGACC	GCTGCAATAG	ATGAAGAACT	TGTGACACCG	2640
ATTATATCAG	GACTTGCAAG	AGGATTTCTT	AACATAGTTT	GAAAGATAAA	TCCTGCCAAT	2700
CCAAAAGACC	AGCCAGCTAT	AATTCCTGCT	AATAATTTTG	GTAATCTAAT	TTCCATAATC	2760
GAAAAACTAG	CTCCAGGAAC	AGTTTCACTA	TTTAAGACTT	TAATCAAAGT	TGAAAAAGAA	2820
TAACTTTCAT	CTCCGATAAG	TAAAATGAAA	AATGATAGAC	TGATTATTAT	TAATAAAAT	2880
AGTGAGGAAA	ATAGTGTTAT	TCTATTTTTT	CTTTTTTGAA	TACCTATAAT	TAAATTTTGC	2940
ATTAGTTATT	AACCCCTCTA	TTTTTCATAG	TTACATAAAT	AAGTACTGGA	CCCCCGATTA	3000
TTGCAGTAAT	TATCCCTACT	TCAATTTCAC	CTGGTTTACC	TAACATACGG	CCGATTATAT	3060
CACATATAAG	CAAGAGCTCT	GCACCTATAA	AAGATGAAGA	AATGGTCATT	GTGCGTATAT	3120
CTTTGCTTAT	AAATAAGCCA	CAAAAGTGAG	GAACTATAAG	ACCTACGAAG	CCAATAGGTC	3180
CACCAATTGC	AGTAATACTT	GAACATAAAA	GCACACTTGC	AATTATTGCA	AGTGATCTTA	3240
TCCTATTAAC	ATTAACTCCA	AGACCAACAG	CCATTTCATC	ACCCATAGCT	AAAGCGTTTA	3300
AATCTGATGA	AATAAATATA	GCTATCAAGT	GACCTAAAAT	TATAAAAGGT	AGTAGTGTAG	3360
ATATAGAAGA	TAATGTAGCT	GCTCCAAGGC	TACCTATTTG	CCAAAATCTA	AATTTGTCTA	3420
AGACGTTATT	ATTCGGTAAA	ATTAAAAAAAC	TTACAAAACT	GCTTAAAGCC	ATACTAACAC	3480

1200 AAGTTCCTGA TAAGGCAAGT TTTATAGGGG TAAGGCCTGC TTTTCCGTTA CAGCAATCGC	3540
GTATACAAAA ATTGCACTTA CTAAGCCACC AATGATTGCG	3580
(2) INFORMATION FOR SEQ ID NO: 210:	

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 11378 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 210:

CCAAATTGCT	CCACAATTAT	TATGGAGTCG	TCGTTTGGCA	GATGGGCGTG	ATATGTGTGC	60
TCAAGAATGG	TTGACAGGCA	AGATATTGAC	CCCCTATGAT	ATGAATCGTA	AGCAAATCGT	120
CAATATTTTA	ACCCGTCTTC	ATCGCTCACG	TCCGTTGATG	ACACAATTGA	GTCGTTTGGG	180
CTATGCCATG	GAAACACCTG	TAGATTTACT	ACAGTCTTGG	CAGGAAACGG	CTCCAGATGC	240
TTTGCGTAAA	AATCATTTTA	TCAGTGAAGT	GATGGCTGAT	TTACGTCAGA	CTATTCCAGG	300
ATTTAGAGAG	GACCATGCGA	CCATTGTCCA	TGGAGATGTA	CGACATAGTA	ATTGGATTGA	360
GACAGATAGT	GGCTTGATTT	ATTTAGTAGA	TTGGGATTCG	GTTCGCTTGA	CCGATCGCAT	420
GTTTGATGTG	GCCCATATGC	TCTGCCATTA	TATTTCAGAA	CATCAGTGGA	AGGAATGGTT	480
GACCTACTAC	GGTTACAAGT	ACAATCAAAC	GGTATTAAGT	AAATTGTATT	GGTATGGTCA	540
ATTGTCTTAT	TTGAGTCAGA	TTTCCAAGTA	TTATATGAAC	CAAGATTTAG	AAAATGTCAA	600
TCGGGAGATT	CATGGTTTGC	GTCATTTCCG	AGACAAGTAT	GGAAAGAGAA	GATGAGAGTT	660
AGAAATCGTA	AAGGGGCAAC	AGAATTACTA	GAGGCAAATC	CCCAGTATGT	GGTCCTCAAT	720
CCCTTGGAAG	CCAAGGCAAA	ATGGCGGGAC	TTGTTTGGCA	ATGATAATCC	CATTCATGTG	780
GAAGTTGGAA	GTGGAAAGGG	TGCCTTTGTT	TCAGGTATGG	CCAAGCAAAA	CCCTGACATC	840
AACTATATCG	GGATTGATAT	TCAAAAGTCT	GTTTTGAGCT	ACGCTTTGGA	CAAGGTGCTT	900
GAAGTTGGAG	TGCCTAACAT	CAAGCTCTTG	TGGGTAGATG	GTTCTGACTT	AACTGACTAC	960
TTTGAAGACG	GTGAGATTGA	TCGCTTGTAT	CTGAACTTTT	CAGATCCATG	GCCGAAAAAA	1020
CGCCATGAAA	AGCGTCGTTT	GACCTACAAG	ACCTTCTTGG	ATACCTTCAA	ACGTATCTTG	1080
CCTGAAAATG	GAGAAATTCA	TTTCAAGACG	GATAACCGTG	GCTTGTTTGA	GTACAGTTTA	1140
GTGAGCTTTT	CTCAATATGG	CATGAAACTC	AATGGTGTCT	GGTTAGATTT	GCATGCCAGT	1200
GATTTTGAAG	GCAATGTCAT	GACAGAATAC	GAGCAAAAAT	TCTCAAACAA	GGGGCAAGTT	1260
ATCTACCGAG	TTGAGGCAGA	ATTTTAAGAG	ATAACCTAAA	ATTAGGCTGT	ACAAGTGCTT	1320

TTGCTTTACA	TAAGTTGGCA	AACGTGCTAT	ACTGATAGTA	AGAATATGAA	AAGTGAGGCG	1380
GGGAAATATC	TTCGCCTCTT	GCTTATGAGG	AGGTGGACGC	AATCGCAACA	ATCGTAGAAT	1440
TAGTCAGAGA	AGTTGTAGAA	CCTGTCATAG	AAGCTCCTTT	TGAACTCGTG	GATATCGAGT	1500
ATGGAAAGAT	TGGCAGTGAC	ATGATTCTCA	GTATTTTTGT	AGATAAACCC	GAAGAATTAC	.1560
CTTGAACGAC	ACGGCAGACT	TGACAGAAAT	TATCAGTCCT	GTCCTAGACA	CCATCAAGCC	1620
AGATCCCTTC	CCAGAACAAT	ATTTCCTAGA	AATTACCAGT	CCAGGTTTGG	AACGTCCTTT	1680
GAAAACCAAG	GATGCCGTCG	CTGGAGCGGT	TGGAAAATAC	ATCCATGTCG	GGCTCTACCA	1740
AGCCATCGAT	AAGCAAAAGG	TCTTTGAAGG	AACCTTGTTG	GCCTTCGAAG	AGGACGAGTT	1800
GACTATGGAA	TATATGGACA	AGACGCGTAA	GAAAACCGTC	CAAATTCCAT	ACAGTTTAGT	1860
ATCAAAAGCA	CGTTTAGCAG	TTAAATTATA	GAAAAAGAAA	GGATAGCTTT	TGAGGATTCA	1920
AAAGTGAAGA	AAACATGAGT	AAAGAAATGC	TAGAGGCCTT	CCGCATTTTG	GAAGAAGACA	1980
AGGGAATCAA	AAAAGAAGAT	ATCATCGACG	CAGTAGTAGA	GTCGCTTCGT	TCCGCTTATC	2040
GCAGACGCTA	TGGTCAGTCA	GACAGCGTAG	CTATTGACTT	CAACGAAAAA	ACAGGTGACT	2100
TTACAGTTTA	TACTGTCCGT	GAAGTTGTTG	ATGAAGTATT	TGATAGCCGT	TTGGAAATCA	2160
GCTTGAAAGA	TGCTCTTGCC	ATTAATTCAG	CTTATGAACT	TGGAGACAAA	ATCAAGTTTG	2220
AAGAAGCACC	AGCTGAGTTT	GGTCGTGTAG	CAGCCCAATC	TGCCAAACAA	ACCATCATGG	2280
AAAAAATGCG	CAAgCAAACA	CGTGCCATCA	CTTACAATAC	TTACAAAGAA	CATGAGCAAG	2340
AAATCATGTC	TGGTACAGTA	GAACGCTTTG	ACAACCGCTT	TATCTATGTC	AACCTTGGTA	2400
GCATCGAAGC	CCAATTGTCA	AAACAAGACC	AAATTCCTGG	AGAAGTTTTT	GCTTCTCATG	2460
ATCGTATCGA	AGTTTATGTT	TACAAGGTTG	AAGACAACCC	TCGTGGTGTG	AACGTCTTTG	2520
TTAGCCGTAG	TCATCCAGAA	ATGATCAAAC	GTTTAATGGA	GCAAGAAATT	CCAGAAGTTT	2580
ATGATGGAAC	TGTTGAAATC	ATGAGCGTGG	CTCGTGAAGC	AGGTGACCGT	ACGAAGGTTG	2640
CTGTTCGTAG	CCACAATCCA	AACGTGGATG	CTATCGGTAC	AATCGTTGGA	CGTGGTGGTG	2700
CTAATATCAA	GAAGATTACT	AGCAAATTCC	ACCCAGCTCG	TTACGATGCT	AAAAATGACC	2760
GCATGGTACC	AATCGAAGAA	AATATCGATG	TTATCGAGTG	GGTAGCAGAT	CCAGCTGAAT	2820
ТТАТСТАСАА	TGCCATCGCT	CCTGCTGAGG	TTGACCAAGT	TATCTTTGAT	GAAAACGACA	2880
GCAAACGTGC	CTTGGTGGTT	GTTCCAGATA	ACAAGCTTTC	TCTTGCCATT	GGTCGTCGTG	2940
GACAAAACGT	GCGCTTGGCG	GCTCACTTGA	CTGGTTACCG	TATCGATATC	AAGTCTGCTA	3000
GCGAATTTGA	AGCCATGGAA	GACGCTGCTT	CAGTAGAGTT	GGAAGTAGAA	AACGATACTG	3060

			1202			
TAGAAGAATA	AAAGCTGCTA	GAGGAGGGAA	AGATGAAAAC	AAGAAAAATC	CCTTTGCGCA	3120
AGTCTGTTGT	GTCTAACGAA	GTGATTGATA	AGCGTGATTT	GCTCCGCATT	GTCAAGAACA	3180
AGGAAGGACA	AGTCTTTATT	GATCCTACGG	GCAAGGCCAA	TGGCCGCGGC	GCTTATATCA	3240
AACTAGACAA	TGCAGAAGCC	CTAGAGGCGA	AAAAGAAGAA	GGTCTTTAAC	CGCAGCTTTA	3300
GCATGGAAGT	GGAAGAAAGC	TTTTATGACG	AGTTGATCGC	TTATGTGGAT	CACAAAGTGA	3360
AAAGAAGAGA	GTTGGGACTT	GAATAAGCAA	AAGATAAGTA	ATCTCTTGGG	GCTTGCTCAG	3420
CGAGCAGGGC	GCATCATATC	GGGTGAAGAA	TTGGTGGTCA	AGGCCATTCA	AGACGGCAAG	3480
GCCAAGTTGG	TCTTTCTAGC	TCATGATGCT	GGACCCAATC	TGACCAAGAA	GATTCAAGAT	3540
AAAAGTCATT	ATTATCAAGT	AGAAATTGTA	ACCGTGTTTT	CAACACTGGA	ATTAAGCATA	3600
GCAGTCGGGA	AATCGAGAAA	GGTTTTGGCT	GTAACAGATG	CTGGATTTAC	AAAGAAAATG	3660
AGGTCTCTTA	TGGAATAGAA	GAGGAGGACA	TGATTTGTCT	AAGAAAAGAT	TGTACGAAAT	3720
CGCAAAAGAA	CTTGGAAAAG	AAAGTAAAGA	AGTTGTAGCG	CGTGCAAAAG	AGTTGGGCTT	3780
GGATGTGAAA	AGCCACTCAT	CAAGTGTGGA	AGAAGCTGTC	GCTGCAAAAA	TTGCTGCCAG	3840
CTTTAAGCCT	GCAGCTGCTC	CGAAAGTAGA	AGCAAAACCT	GCAGCCCCAA	AAGTAAGTGC	3900
AGAAAAGAAA	GCCGAAAAAT	CTGAGCCAGC	TAAACCAGCT	GTAGCTAAGG	AAGAGGCAAA	3960
ACCTGCAGCC	CCAAAAGCAA	GTGCAGAAAA	GAAAGCCGAA	AAGTCTGAAC	CAGTAAAACC	4020
AGCTGTAGCC	AAGGAAGAGG	CAAAACCAGC	TGAGCCAGTC	ACTCCGAAAA	CAGAAAAAGT	4080
AGCGGCTAAA	CCGCAAAGTC	GTAATTTCAA	GGCTGAGCGT	GAAGCACGTG	CTAAAGAGCA	4140
GGCAGAGCGA	CGCAAGCAAA	ATAAGGGCAA	TAACCGTGAC	CAACAACAAA	ACGGAAACCG	4200
TCAGAAAAAC	GACGGCCGTA	ATGGTGGAAA	ACAAGGTCAA	AGCAACCGCG	ACAATCGTCG	4260
CTTTAATGAC	CAAGCTAAGA	AGCAGCAAGG	TCAGCAAAAA	CGTAGAAATG	AGCGCCGTCA	4320
GCAAGAGGAT	AAACGTTCAA	ATCAAGCGGC	TCCACGTATT	GACTTTAAAG	CCCGTGCAGC	4380
AGCCCTAAAA	GCAGAGCAAA	ATGCAGAGTA	CGCTCGTTCA	AGTGAGGAAC	GCTTCAAGCA	4440
GTATCAGGCT	GCTAAAGAAG	CCTTGGCTCA	AGCTAACAAA	CGCAAGGAAC	CAGAGGAAAT	4500
CTTTGAAGAA	GCGGCTAAGT	TAGCTGAACA	AGCACAGCAA	GTTCAAGCAG	TGGTTGAAGT	4560
CGTCCCTGAG	AAAAAAGAAC	CTGCAGTGGA	TACACGTCGT	AAAAAACAAG	CTCGACCAGA	4620
CAAAAATCGT	GACGATTATG	ATCATGAAGA	AGATGGTCCT	AGAAAACAAC	AAAAGAATCG	4680
AAGTAGTCAA	AATCAAGTGA	GAAATCAAAA	GAATAGTAAC	TGGAATAACA	ACAAAAAGAA	4740
CAAAAAAGGC	AATAACAAGA	ACAACCGTAA	TCAGACTCCA	AAACCTGTTA	CGGAGCGTAA	4800
ATTCCATGAA	TTGCCAACAG	AATTTGAATA	TACAGATGGT	ATGACCGTTG	CGGAAATCGC	4860

AA	AACGTATC	AAACGTGAAC	CAGCTGAAAT	TGTTAAGAAA	CTTTTCATGA	TGGGTGTCAT	492
GG	CCACACAA	AACCAATCCT	TGGATGGGGA	AACAATTGAA	CTCCTCATGG	TGGATTACGG	4980
TA'	TCGAAGCC	AAACAAAAGG	TTGAAGTGGA	TAATGCTGAC	ATCGAACGTT	TCTTTGTCGA	5040
AG	ATGGTTAT	CTCAATGAAG	ATGAATTGGT	TGAGCGTCCA	CCAGTTGTTA	CTATCATGGG	5100
AC	ACGTTGAC	CACGGTAAAA	CAACCCTTTT	GGATACTCTT	CGTAACTCAC	GTGTTGCGAC	5160
AG	GTGAAGCA	GGTGGTATTA	CTCAGCATAT	CGGTGCCTAC	CAAATCGTGG	AAAATGGTAA	5220
GA	AGATTACC	TTCCTTGATA	CACCAGGACA	CGCGGCCTTT	ACATCAATGC	GTGCGCGTGG	5280
TG	CTTCTGTT	ACCGATATTA	CGATCTTGGT	CGTAGCGGCA	GATGACGGGG	TTATGCCTCA	5340
GA	CTATTGAA	GCCATCAACC	ACTCAAAAGC	AGCTAACGTT	CCAATCATCG	TAGCTATTAA	5400
CA	AGATTGAT	AAACCAGGTG	CTAACCCAGA	ACGCGTTATC	GGTGAATTGG	CAGAGCATGG	5460
TG:	PGATGTCA	ACTGCTTGGG	GTGGAGATTC	TGAATTTGTT	GAAATTTCGG	СТАААТТСАА	5520
CC	AAAATATC	GAAGAATTGT	TGGAAACAGT	CCTTCTTGTG	GCTGAAATCC	AAGAACTCAA	5580
AG	CAGACCCA	ACAGTTCGTG	CGATCGGTAC	GGTTATCGAA	GCGCGCTTGG	ATAAAGGAAA	5640
AG	GTGCGGTC	GCAACCCTTC	TTGTACAACA	AGGTACCTTG	AATGTTCAAG	ACCCAATCGT	5700
TG:	PCGGAAAT	ACCTTCGGTC	GTGTCCGTGC	TATGACCAAC	GACCTTGGTC	GTCGTGTTAA	5760
AG'	ITGCTGGA	CCATCAACAC	CAGTCTCTAT	CACAGGTTTG	AACGAAGCAC	CGATGGCGGG	5820
TG	ACCACTTT	GCCGTTTACG	aggatgaaaa	ATCTGCGCGT	GCAGCAGGTG	AAGAGCGTGC	5880
CAI	AACGTGCC	CTCATGAAAC	AACGTCAAGC	TACCCAACGT	GTTAGCCTTG	AAAACCTCTT	5940
TGJ	ATACCCTT	AAAGCTGGGG	AACTCAAATC	TGTTAATGTT	ATCATCAAGG	CTGATGTACA	6000
AGO	STTCTGTT	GAAGCCCTTT	CTGCCTCACT	TCAAAAGATT	GACGTGGAAG	GTGTCAAAGT	6060
GAC	CTATCGTC	CACTCAGCGG	TCGGTGCTAT	CAACGAATCA	GACGTGACCC	TTGCCGAAGC	6120
ГT(CAAATGCC	TTTATCGTTG	GTTTCAACGT	ACGCCCTACA	CCACAAGCTC	GTCAACAAGC	6180
AG/	AAGCTGAC	GATGTGGAAA	TCCGTCTTCA	CAGCATTATC	TACAAGGTTA	TCGAAGAGAT	6240
GG <i>I</i>	AAGAAGCT	ATGAAAGGGA	TGCTTGATCC	AGAATTTGAA	GAAAAAGTTA	TTGGTGAAGC	6300
GG7	PTATCCGT	GAAACCTTCA	AGGTGTCTAA	AGTGGGAACT	ATCGGTGGAT	TTATGGTTAT	6360
CA	ACGGTAAG	GTTGCCCGTG	ACTCTAAAGT	CCGTGTTATC	CGTGATGGTG	TCGTTATCTA	6420
TG#	atggtgaa	CTCGCAAGCT	TGAAACACTA	TAAAGACGAC	GTGAAAGAAG	TGACAAACGG	6480
rcc	GTGAAGGT	GGATTGATGA	TCGACGGCTA	CAATGATATT	AAGATGGATG	ATGTGATTGA	6540
GGC	GTATGTC	ATGGAAGAAA	TCAAGAGATA	AGATTTTTTG	CTCCTTTCTT	AGGTGGTGAG	6600

			1204			
GGACGCAAGC	AAACCGATGG	TTTCATTGCT	TATTTTTGAG	CCTAGGGTCT	CAAAAATCCC	666
CTGTGATGGG	ACTGATAAAT	CAGTTCCATC	ACTTTCACCA	CGGCGAAAGA	AGCAGATGAC	672
TTCAAATTGA	ACTTCGTTTC	AATTTAAACT	GAAAATCAAG	AAGTTTAAAA	TAGCTAGGTC	678
TGCTGGCCTA	GCTTTTGGTT	CAAAGTAGAG	AAAGGAATAT	CATGGCAAAT	CATTTCCGTA	684
CAGATCGTGT	GGGCATGGAA	ATCAAGCGTG	AAGTCAATGA	GATTTTGCAA	AAGAAAGTCC	690
GTGATCCACG	TGTCCAAGGT	GTGACCATCA	TAGATGTTCA	GATGCTGGGT	GACTTGTCTG	696
TTGCCAAGGT	TTATTACACC	ATTTTGAGTA	ACCTTGCTTC	GGATAACCAA	AAAGCCCAAA	702
TCGGGCTTGA	AAAAGCAACT	GGTACCATCA	AACGTGAACT	TGGTCGCAAT	TTGAAATTGT	708
ACAAAATCCC	AGATTTGACC	TTCGTCAAAG	ACGAGTCCAT	CGAGTATGGA	AACAAGATTG	714
ACGAGATGCT	ACGCAATCTG	GATAAGAACT	AAAGAAGAGG	GGTTGCCCCT	CTTTTTTGGT	720
GGAGGAAAAT	AGGTTGAATT	TGAAATGGAA	AAATATTCTT	TTATAATAGA	TTGAAACTAG	726
AATAGTACGC	CTCTACTTCT	AAAATATTGT	TAGAAATCGA	TTTGACTGTC	CTGATCGATT	732
TGTCCTGTTC	TTGTTTCATT	TTAATATAAA	AAAGGGATTC	TGTATTTTT	AATGTTATCT	738
AATTAGAAAA	TGCTTTTTT	GTAGGAAATA	TAATATGATA	AGGTGCAAAA	AAGAAATAAG	744
GAGTTTGTAT	ATGGCTGAAC	AAGACTTAGC	TATGCAAGTA	TTGCAACAAG	TGGTGAAACT	. 750
ACCTGTTGTT	AAGGTTGATC	GTTCGAAATT	TTTAGTGGAT	AAGTTTTCCA	AAGAATTGGA	7560
TCCAAAAGAT	ATTCCTACCT	TATTGGAACA	AGGTCCAACG	ACTCTTCTAT	CTCAAGAAAT	762
ATTAGATCGT	GTAGCTAATG	CTTGTATTCG	GGACAATGTA	TTATTAGCGA	GTGGGACTTC	7680
TGTTTTGGCA	GGATTACCTG	GAGGGCTTGC	TATGGCAATT	ACCATTCCAG	CTGATGTGGC	7740
TCAATTTTAT	GCTTTCTCTC	TGAAATTGGC	TCAAGAATTA	GGTTATATTT	ATGGTTATGA	7800
GGATCTTTGG	GCTTCACGAG	AGGAGTTGAG	TGAAGATGCT	CAAAATACCC	TCTTGCTTTA	7860
TCTAGGCGTA	ATGTTAGGGG	TGAATGGAAC	CGCTGCTTTG	CTACGTGTTG	GTAGTATAAC	7920
AATTGCCAAA	CAGGTAATGA	AAATAGTGCC	TAATAAAGCT	TTAACAAAGA	CGCTTTGGTA	7980
CCCTATTTTG	AAAAAAGTCT	TAAAAATATT	TGGTGTGAAT	CTTACCAAGG	GAGGGTTGGC	8040
CAAAGGAATG	GGGAAATTTA	TTCCTATCTT	GGGTGGTATC	ATTTCAGGTG	GTTTAACCTT	8100
TGCAACTATG	AAACCAATGG	GGGAAAGCTT	GCAGAAAGAA	TTATCCAAGC	TAGTCAACTA	8160
TAGTGAAGTT	CAATATCAAG	AAGATGTTGA	AACAATCCGA	AAAGAGGCTG	AAATCATCAA	8220
AGGAGAGTAA	TATGAATCCT	ATCAAAGCTT	TTGCTAAAAT	TTATGGTAAT	TACTTTTTGA	8280
CCGTGCAAGG	TGTAAAAGTG	ATGAAAACGA	TAAAGAAAGC	TGACCATGTC	GTTGTTGGTC	8340
TGGGGAAACT	TTTTATTGCC	GACAAGTTAA	TGGATACGGC	TCGGTGGCTC	ATTAAGCCAG	8400

8460	CCGATTATTG	ТТТТАТСААА	TTGCTATTCT	TTTGGTCTTC	ATGAAATTTT	AGGAGAGAGA
8520	TTTTACAAGA	CCAATTGCTG	CTTTTGCAGT	ATGATCATCT	ATTCTTTTGG	GGATTGTGAA
8580	CAAGTTGCAG	GATGGTAATC	AACTTATCTA	TGGCTCTTTA	GATATTGGAT	TAGTGTTTAA
8640	ATAATATAAG	TCCATATGGT	TTATTCTCTT	TGCTAGTTTT	GGAACTCCAC	AGAACTAGCA
8700	TCACCTTGCA	CACGTCAGCT	CTCTTCAAAC	CTTCGAAAAT	ATTTTATACT	CAGTAAAATC
8760	TTTTGAGCTG	CAAAACGGTG	TCCACAACCT	GTCAGTTCTA	TACTGACTTC	GTATATATGT
8820	GGCTAGCTTC	AGCAACCTGC	CACTGTTTTG	AACCTCAAAA	TTCTATCTAC	ACTTCGTCAG
8880	GTCATGGACA	AATGGAGGTC	TAGAACATAC	CATTGAGTAT	CTTTGATTTT	CTAGTTTGCT
8940	GAAGTCTTGG	CAAGCATCCA	AAGTGGTGGA	CCTGTTGCAG	TGTGTCAATT	ATATCATCGA
9000	AATACAGTTG	CTTAATGCGC	TTGCCAATCC	TTTAAACCCC	GGAGTTGGGT	AAATTCTAGT
9060	GACAAGATTG	AACTCCTATG	AGCTAGCAGG	CAGGGTTCTA	ATCACTTAAA	GTCGTAAAGT
9120	CAGATGAACG	AGACTAATGA	TGATTGGATT	GGCTACGAAG	GGAAGCGAAT	TACGCACACT
9180	CTGAGTCGGT	GGCGCCTCTC	ATTGCACAAT	TTTTGTTAGA	CTACGGGATA	GATTCATATC
9240	CCCTTATGGA	ATCGAGATTT	CGTGTCAGCC	CCTTTACGGG	TTTGATGCGA	TCAAGATCGC
9300	AACTCTGTGA	GATGTTATGG	CACTTTTGAA	ATTCGGGCGT	ATGAACTCGG	GCACGAGCTG
9360	ATACTGAGCA	GAAGTTTCAG	CAAAGGTGTC	AAAATGCTAT	AATCTTTTTA	TGTCCATGCC
9420	CGGCCTTGAT	GCTCTCCGTG	AGAAAATCTG	TCTTCAAAGA	CCAGTTCGTG	TCCAGGTCAC
9480	TGCTGGCGGA	GACGAGGAAA	GTCTATGGAA	ATACCTATGA	AGATTGTTAG	TCGCATTCGT
9540	TCCATTACCA	CAATTTGACA	ACTTGTGGGT	GTCAGATGGG	GGTTTGGTGC	GATGCGTAAG
9600	CACCTCCCAA	GGACACGATT	GGAGCGCTAT	TTCCTATCAT	GAACTCTTCT	ACGTAAGGAA
9660	TAACGACAGC	CAAACAGCTC	GGAACTCTTT	ATCAGATTAG	GGAGTGGATG	AGTTATGTGG
9720	CTTTTGCGAC	GCTTTTGAAG	TGTAAAGGAA	CAATTAGCAG	CCAGAAGTGT	CAAGTCACTA
9780	TCCTTGAGTC	CTCATGATTC	GTCCATCCTC	TCAAGGAAGA	AGTATGATTT	AGAGTTTGAA
9840	GCTATGCCAT	GATGCCTATG	GGAGGAGAGC	TTCAGATTGC	GATGACTGGC	TTTTACTCAG
9900	AAAAGATTGC	TTTATTGAGG	ACGACAGAGC	GGGTGCCAGA	TCAGAGAAAT	CATCCGTCCG
9960	TAGATACGCC	CAACAAGTCA	AGGTCAAGTT	ATACGGCAGA	GTACAGCTAG	AGAGGAGCCT
10020	TGGACCGCCA	GAAGCTGTGC	TAAGGAAAAG	CCTTTACCCC	TTTACCATTA	AGAAGGCCAT
10080	TCATCCTCAA	CAGGCCAATC	TTCAGTCGAG	ATGGCTATCT	GCTTTTGGTA	TAGTCAACAG
10140	ATTACAATGA	ATTTTCCAGT	TAAAGAAGAT	CCTTTGTCAA	ATGGAGATTA	TCATCTCCCT

CAATACGCC	A GCTGATGAGA	TGATTTTCAA	1206 ACGGACGCCG	TCCCAAGTCG	GGCGCAATGT	10200
CGAACTCTG	C CATCCGCCTA	AGTACTTGGA	CAAGGTCAAA	ACTATCATGA	AGGGGCTTCG	10260
TGAGGGAAG	C AAAGACAAGT	ATGAAATGTG	GTTCAAGTCT	GAGTCGCGAG	GTAAGTTTGT	10320
ССАСАТСАС	C TATGCTGCAG	TACACGATGA	AGACGGAGAA	TTCCAAGGAG	TGTTGGAGTA	10380
TGTTCAGGA	T ATCCAGCCCT	ACCGTGAGAT	TGATACGGAC	TATTTTCGTG	GATTAGAATA	10440
AGGAGAAAA	A ATGAGTTACG	AACAAGAATT	TATGAAGGAA	TTTGAAGCTT	GGGTCAATAC	10500
ССАААТСАТ	G ATTAACGACA	TGGCGCACAA	GGAAAGCCAA	AAAGTTTACG	AAGAAGACCA	10560
GGACGAGCG	T GCCAAAGATG	CCATGATTCG	CTACGAGAGT	CGCTTGGATG	CTTATCAGTT	10620
CTTGCTTGG	T AAGTTTGAAA	ACTTCAAAGT	AGGCAAGGGA	TTCCATGATT	TGCCAGAAGG	10680
CTTGTTTGG	T GAGCGAAATT	ATTAAACGAG	AAAGATTCTT	GATTTTTCAC	TAAAATCTTG	10740
Atagaatgt	т татсттааат	CCTTGTCAGA	GCAGGGATTT	TTTATTGAAA	GGATTTTATC	10800
ATGTCAAAG	A AACTCAATCG	TAAAAAACAA	TTACGAAATG	GCCTCCGTCG	CGCAGGTGCC	10860
TTTTCAAGT	A CGGTGACTAA	GGTTGTAGAT	GAGACAAAA	AAGTCGTGAA	GCGTGCAGAA	10920
CAGTCAGCA	A GCGCAGCTGG	TAAGGCTGTT	TCTAAAAAAG	TTGAACAAGC	AGTAGAAGCT	10980
ACCAAAGAG	C AAGCTCAAAA	AGTAGCTAAT	TCTGTAGAAG	ATTTTGCAGC	AAATTTGGGT	11040
GGACTTCCA	C TTGATCGTGC	CAAGACTTTC	TATGATGAAG	GAATCAAGTC	TGCTTCAGAT	11100
TTCAAAAAC	T GGACTGAAAA	AGAACTCCTT	GCCTTGAAAG	GAATCGGCCC	AGCTACCATC	11160
AAGAAATTG	A AAGAAAATGG	CATCAAGTTC	AAGTAATTTT	TCTTGAGCCT	TGCATTTCCG	11220
ААААААТСТ	T GCTACAATAG	AGCCATTAGA	GGTGTTTTGA	ATCCCACATT	TTACAGAAAG	11280
TGGCGGCGC	T GAGAAGTCCA	CAAATGTGTC	AAAACTGGTT	GCTAATGGAT	GAAAAATTGA	11340
	G TCTTTTTGCT					11378
(2) INFOR	MATION FOR S	EQ ID NO: 21	11:			

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 4156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 211:

C	CCGCGAGCCA	CGGCGAATTT	GCTGCGGGTA	TTCATCAGTC	AGGATCTATG	ATCTTTGGTG	60
7	ACAAGAAAA	GGTTCAAGTT	GTGACCTTTA	TGCCAAATGA	AGGTCCTGAT	GATCTATACG	120
c	TAAGTTTAA	TAACGCTGTT	GCTGCATTTG	ACGCAGAAGA	TGAGGTTCTA	GTTTTGGCTG	180

ACCTTTGGAG	TGGTTCTCCA	TTTAACCAAG	CTAGTCGCGT	GATGGGAGAA	AATCCTGAGC	240
GTAAGTTTGC	CATCATCACA	GGACTTAACT	TACCGATGTT	GATTCAAGCC	TACACAGAGC	300
GCCTCATGGA	CGCTGCTGCA	GGTGTAGAAA	AAGTCGCTGC	TAATATCATT	AAAGAAGCCA	360
AAGATGGCAT	CAAAGCTCTT	CCAGAAGAGC	TAAATCCAGT	CGAAGAAGTT	GCAAGCGCTG	420
CAGCTGCTCC	AGTTGCCCAA	ACTGCTATCC	CAGAAGGAAC	TGTTATCGGA	GACGGTAAAT	480
TGAAAATCAA	TCTTGCCCGT	CTTGACACAC	GTCTACTTCA	CGGTCAGGTT	GCAACTGCTT	540
GGACTCCAGA	TTCAAAAGCA	AATCGTATCA	TCGTTGCTTC	AGATAACGTG	GCTAAAGACG	600
ACCTTCGTAA	AGAATTGATT	AAACAAGCAG	CTCCAGGTAA	TGTCAAGGCT	AACGTGGTTC	660
СААТТСАААА	ACTGATTGAG	ATTTCAAAAG	ACCCACGTTT	TGGAGAAACA	CATGCCCTTA	720
TCTTGTTTGA	AACACCTCAA	GATGCCCTTC	GTGCCATCGA	AGGCGGCGTG	CCAATCAAGA	780
CTCTTAATGT	TGGTTCTATG	GCTCACTCAA	CAGGTAAAAC	ATTGGTCAAT	ACCGTTTTGT	840
CTATGGACAA	AGAAGACGTT	GCTACATTTG	AAAAAATGCG	TGACTTGGGT	GTTGAATTTG	900
ATGTCCGTAA	AGTACCAAAT	GATTCTAAAA	AAGATTTGTT	TGACTTGATT	AACAAAGCCA	960
ATGTCAAATA	AGCCATTATT	TATGAAAGGA	TTTTAAACAT	GTCTATTATT	TCTATGGTTT	1020
TAGTAGTCGT	TGTAGCCTTC	TTTGCAGGTC	TTGAAGGCAT	CCTCGACCAG	TTCCAATTTC	1080
ACCAACCACT	TGTAGCCTGT	ACCCTTATTG	GGCTTGTAAC	AGGTCACTTG	GAAGCAGGGA	1140
TTATCCTCGG	TGGATCGCTT	CAAATGATTG	CCCTTGGTTG	GTCAAATATC	GGTGCTGCTA	1200
TCGCTCCTGA	TGCTGCACTT	GCTTCTGTCG	CTGCTGCCAT	TATCATGGTT	CTTGGTGGTG	1260
ACTTTACCAA	GACTGGTATC	GGTGTTGCCC	AAGCGGTTGC	TATCCCTCTT	GCTGTAGCTG	1320
GACTTTTCTT	GACAATGATT	GTTCGTACAA	TTTCAGTTGG	TTTGGTTCAT	ACTGCAGATG	1380
CTGCCGCTAA	AAAAGGTGAC	TTCGGCGCTG	TGGAGCGTGC	GCATTTCATC	GCGCTACTTT	1440
TCCAAGGACT	TCGTATCGCG	CTTCCTGCAG	CTCTTCTCCT	TATGGTACCA	ACTGAAACTG	1500-
TACAAAGTAT	CCTTAGTGCC	ATGCCAGACT	GGCTCAAAGA	TGGTATGGCT	ATCGGTGGTG	1560
GTATGGTCGT	TGCCGTTGGT	TACGCCATGG	TTATCAACAT	GATGGCAACT	CGTGAAGTAT	1620
GGCCATTCTT	CGCTCTTGGT	TTCGTTCTCG	CTGCTGTGTC	AGATATTACT	CTAATCGGAT	1680
TCGGTGCTAT	CGGCGTTGCT	ATCGCTCTTA	TCTACCTTCA	CCTTTCTAAA	ACTGGTGGAA	1740
ATGGTGGCGG	AGGAGCCGCA	ACTTCTAACG	ACCCAATCGG	CGATATCCTA	GAAGACTACT	1800
AAGATAAGAA	AGGACTGAAA	ACATCATGAC	TGAAAAACTT	СААТТААСТА	AATCAGATCG	1860
TAAAAAAGTT	TGGTGGCGTT	CAACCTTCTT	ACAAGGGTCT	TGGAACTTTG	AACGGATGCA	1920

			1208			
AAACTTGGGC	TGGGCTTATA	CACTCATTCC	AGCTATCAAA	AAACTCTATA	CTAAAAAAGA	1980
AGATCAAATC	GCTGCTCTTG	AGCGTCACCT	TGAGTTCTTC	AACACTCATC	CATACGTAGC	2040
TGCTCCAGTC	ATGGGGGTTA	CTCTTGCGCT	TGAAGAAGAA	CGTGCTAACG	GTGTGGAAAT	2100
CGATGACGCT	GCTATCCAAG	GGGTTAAAAT	CGGTATGATG	GGACCTCTTG	CTGGTATCGG	2160
TGACCCAGTA	TTCTGGTTTA	CAGTACGCCC	AÁTCCTTGGA	TCTCTCGGTG	CTTCACTTGC	2220
CCTTACTGGC	AATATCTTGG	GGCCACTCCT	CTTCTTTGTT	GCATGGAACT	TGATTCGTAT	2280
GTCATTCTTG	TGGTATGTTC	AAGAGATTGG	ATACAAGGCT	GGATCAGAAA	TCACTAAAGA	2340
TATGTCTGGT	GGTATCCTTC	AAGATATCAC	TAAAGGAGCT	TCTATCCTTG	GGATGTTCAT	2400
TCTTGCTGTC	CTTGTTCAAC	GCTGGGTAAA	TATTAAATTT	GCTTTCGATG	TTTCTAAAGT	2460
TCAACTAGAT	GAAAAGGCTT	ATATCCATTG	GGATAAATTG	CCAGAAGGGT	CTAAAGGTAT	2520
CCAAGAAGCA	TTCGCACAAG	TAGGACAAGG	ATTGTCTCAA	ACTCCTGAAA	AAGTTACTAC	2580
TTTCCAACAA	AACTTGGATA	TGTTGATTCC	TGGATTATCA	GGACTACTCC	TTACTTTACT	2640
TTGCATGTAC	TTACTTAAGA	AAAAAGTATC	TCCAATCACT	ATTATCCTTG	CCCTCTTCGC	2700
AGTGGGTATT	GTGGCACATG	TTCTTCACAT	CATGTAATCA	AGCAACTAAA	AAGGAACCAG	2760
GTTCTAAAAT	CTGATTCCTT	TTTTCTATGC	TTTTATTCAG	CCAAGGCTCC	CATTGGATCC	2820
CATGGTGCAA	GTACGATTGG	TTCTGCTCCA	TAGGCAGCTT	GTTCTTCTGC	TGTCAGCAAT	2880
TCCTTACGAA	CAACGATTTG	GTATGTGTAT	TCGTCCATCC	AAGCGTCTGA	GGCAACAAAG	2940
TAACCATCTG	TACCGACCTT	GTCTCCCCAT	GAGTTTTCAA	CCTTCCACTT	GGTTGATTTA	3000
CCATTTTCGT	CCAAGTCAAC	ACCTGTCAAG	ACCATGGCGT	GGGTCATCAA	GCTTTCACTA	3060
TAGTCCAAAC	GTCCAGCCTT	GTCTTGAGTA	AGTTTAATGT	CCATGCTTGA	TTCAAAGTCA	3120
TAAACATCTG	TCGCAAGGAT	GCCAGCTTAC	GGTTGCTGAG	CTGGCCGACA	TCAGAACCAA	3180
ACCAAACAGT	CTCACCTGCT	TGCATTTGGG	CAATCGCCAA	TTCTTTCAAG	CGCTCCATTG	3240
GAACGTTGAT	GTAGCGAACT	GCACGGCTAC	CAACCACATT	CCCCAACATC	TCAACTGTGT	3300
AAGATTTTCC	GTAAGGTTTA	TCAGCAGTTG	GAGCATTGAT	AACAGAAACG	TAGTCTTCTA	3360
AAGGAAGATT	GACATATTTC	TTGTAAAACT	CTTGTGGTGT	GATTCCTTTT	TCACTTTTGT	3420
AGTTGTTATC	TTTATCGCGA	TAAGCAAAGT	CAAACTTGCG	TGGTGGAAGT	CCTAATGACA	3480
TAGCAAGAAA	GTTAAAGATT	TCTTGCAAGA	GGTCTTCTTT	CTTAGCTTGA	ACAGTCGCTT	3540
GATCTGCACC	AGAAACAAGC	AAGTCACGCA	AGATTTGAGC	ATCTTGACGA	AGCAATTTAT	3600
TAAGGATCGC	ATTTAGCTCA	CGACTGCTGC	TAGATGAAAC	AGACTCAGGA	TAAACTGACT	3660
TAGGCACGAC	ACCGTATTTT	TCAAAGAGGG	AAACGACCAT	ATCCCATTGA	CCGCCATCTT	3720

1209

GTTGAGGTGT	TTGGAGTAAG	AAGCTAACtT	GCGGCTAGTC	AATTCTTGGT	CTGAAGTCGC	3780
AATGACTTGC	TCCAAGAACC	AGTTTGATTT	CTCATACTTA	TCCCAGAAGA	AAGTGTGGGC	3840
TTGTGACAAC	TCAAAGTTCT	CCAATTTGTA	TTGCGAGATG	AGTTTGTGGC	GGAAGGTGTT	3900
GAGAGCCGCA	AACATCCAGC	AACGACCAGA	CGCTTTCTGG	TTAGTGACCT	TGTCCTTGGT	3960
TAAATCCAAT	GAGAAAACAG	GTGTGTTGTC	TACATGGCTT	TGGCGACGTT	CCAGAGCTGC	4020
AAAAATTCCG	TTGTGGCTGG	CAGCATTTTC	AATCGCTTGG	TATTTTACAT	TTGCTTCATA	4080
GTTGGCAAAT	AGTTTATCAG	TAAATGATTC	TTGAATCGCG	TTCATAGATT	CCTCCTTTTA	4140
GTCTACAGTG	TATTGG					4156

(2) INFORMATION FOR SEQ ID NO: 212:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 3902 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 212:

AAAAACAACA	AAATAAAACA	ААААСААААА	TATCGAGGTT	ТАТТТТСААА	ACTTTCGATA	- 60
TTTTTTATTAA	GTTATTATTT	TGTTGTTTCT	AGTTTACTTT	TTGATGGTTA	AGAGTGGTGG	120
AGAATTATAC	TCAATGAAAA	TCAAAGAGCA	AACTAGGAAG	CTAGCCGCAG	GCTGTACTTG	. 180
AGTACGGCAA	GGCGAAGCTG	ACGTGGTTTG	AATTTGATTT	TCGAAGAGTA	TTAGTGCAAA	240
CCGTAGTTGT	AGTCATCATC	TTGCATGGCT	TCAACTTCGC	CAAGAAGGTA	ACCATTTCCG	300
ACTTGAGAGA	AGAAGTCATG	GTTGGAAGTT	CCTGTTGAAA	TACCGTTCAT	AACGATTGGG	360
TTGACATCTT	CAGCTGAATC	TGGGAAAAGT	GGATCTTGTC	CCATGTTCAT	GAGAGCTTTA	420
TTGGCATTGT	AGCGAAGGAA	GGTTTTAACC	TCTTCAGTCC	AACCAACACC	GTCATAAAGA	480
CTCTCTGTGT	AGCCTTCTTC	ATTTTCATAA	AGAGTATAGA	GTAGGTCGTA	CATCCATTCT	540
TTGAGTTTTT	CTTGCTCTTC	TTCAGGTAAT	TCATTGAAAC	CAAGTTGGAA	TTTGTAACCA	- 600-
ATGTAGGTTC	CGTGAACAGA	CTCGTCACGA	ATAATCAATT	TAATGATTTC	TGCAACGTTG	660
GCAAGTTTGT	TGTTACCGAG	ATAGTAGAGG	GGAGTGAAGA	AACCAGAGTA	GAAGAGGAAG	720
GTTTCGAGGA	AGACGCTGGC	AACTTTCTTT	TCAAGTGGGC	TGCCGTTTAG	GTAGATTTCG	780
TTGACAATCT	CAGCCTTCTT	TTGTAGGTAA	GGATTGGTAT	TGGTCCATTC	GAAAATTTCT	840
TCAATCTCAG	CCTTAGTATT	CAAGGTAGAA	AAGATTGATG	AGTAAGATTT	AGCGTGGACA	900

			1210			
GATTCCATAA	ATTGGATGTT	ATTGAAGACA	GCTTCCTCAT	GTGGTGTACG	GATGTCTGCG	960
CGAAGGGCTT	GAACCCCAGT	TTCAGATTGC	ATAGTGTCAA	GAAGGGTTAA	ACCACCAAAA	1020
ACTTTTCCGA	CCAAGTCTTT	CTCTTTGTTA	GATAGCTTTC	TCCAGTCATC	CAAGTCGTTT	1080
GATAAGGGAA	TACGTGTATC	GAGCCAAAAT	TGCTCCGTCA	GTTTTTCCCA	AGTTGATTTG	1140
TCGATGACAT	CTTCGATGGC	ATTCCAGTTA	ATGGCTTTGT	AGTAAGTTTC	CATTTAAAAT	1200
CTCTTTCTGT	GTTTAGTATT	GCGAACTCAC	AATTATTTCT	ACTTTACCAT	AATTCTATAG	1260
GAGTATCGCA	CAAAAAGTCG	GAAGCCCGAC	TTTTAAAATG	TTACATAAAT	TATGTTATGA	1320
CATAGTAGAT	TTGATTTTAT	CAGTGCTGCT	TAGGGAAAAA	TAGTGTTTCT	ATGCTAGAAA	1380
CTAAATCACA	CAGCTTTCAC	ATTGGTTGGC	GCCGACTTCT	CCACCGTCAT	CTGTAAAGGT	1440
ACGGACGTAG	TAGATAGACT	TGATTCCCTT	GTTAAAGGCA	TAGTTACGAA	GGATGGACAA	1500
GTCACGTGTC	GTTTGTTTAT	TTTCCCTCTT	CCATTCGTAA	AGGCCTTTTG	GAATGTCACT	1560
GCGCATGAAG	AGGGTGAGTG	AAAGTCCTTG	ATCCACGTGT	TCAGTCGCAG	CAGCGTAAAC	1620
ATCGATGACT	TTACGCATAT	CCATATCGTA	GGCAGAAGTG	TAGTAAGGAA	TGGTTTCTGT	1680
AGACAAGCCA	GCAGCAGGGT	AATAGATTTT	ACCAATTTTC	TTCTCTTGGC	GTTCTTCGAT	1740
ACGTTGCGTA	ATCGGGTGGA	TAGAAGCAGA	AACGTCGTTG	ATATAGCTGA	TAGAACCATT	1800
TGGCGCTACA	GCAAGGCGAT	TTTGGTGGTA	AAGACCATCT	TCTTGAACCT	TGTCGCGAAG	1860
PTCAGCCCAA	TCAGCAACAC	CAGGGATAAA	GACATTTTTG	AAGAGTTCTT	TAACACGGTC	1920
rgatgttgga	ACAAATTCAC	CAGTTACATA	CTTGTCAAAG	TAACTTCCGT	TAGCATAGTC	1980
IGATTTTTCA	AAGTTGTGGA	AGGTAATACC	ACGTTCACGT	GCAATATTGT	TTGACTCTAC	2040
CAAGGTCCAG	TAGTTCATAA	GCATAAAGTA	GATGCTTGTA	AATTCAACAG	ACTCAGGTGA	2100
ACCATATTCA	ATGAGTTGTT	GGGCAAGGTA	GCTGTGCAGT	CCCATGGCAC	CGAGACCAAA	2160
GGTGTGGGCT	TGGCTATTTC	CATGGTCAAT	CGTTGGTACA	GCTACGATAT	GTGAACTATC	2220
IGTAACGAAA	GTAAGGGCAC	GAACCATAGC	ACGGATAGAA	CGACCAAAAT	CAGGTGAAGT	2280
CATCATGTTA	ACCACGTTGG	TTGAACCCAG	GTTACATGAA	ACATCTGTTC	CCATTTGAAG	2340
Gaattettga	GCATCGTTGA	TCAAGCTTGG	TTCTTGAACT	TGAAGAATCT	CAGAACACAA	2400
GTTACTCATG	ATAATCTTTC	CATCAACAGG	ATTTGCACGG	TTAGCCGTAT	CGATGTTGAC	2460
PACATAAGGA	TAGCCAGACT	CTTGTTGCAA	TTTAGAGATT	TCAGTTTCCA	AATCCCGCGC	2520
CTTGATTTTT	GTCTTGCGAA	TATTTGGATT	TGCGACCAAT	TCATCGTATT	TTTCAGTAAT	2580
GTCGATGTAA	TTGAATGGCA	CACCGTATTC	TTTTTCTACA	GAGTAAGGGC	TGAAGAGGTA	2640
CATTTCTTCA	TTTTTACGAG	CCAATTCGTA	GAATTTATCA	GGTACTACAA	CACCAAGTGA	2700

1211

TAGAGTCTTG	ACACGTACTT	TTTCATCAGC	GTTTTCTTTC	TTAGTTGAAA	GGAAAGCGAT	2760
GATATCTGGG	TGAAAGACGT	TGAGGTAGAC	AACACCAGCA	CCTTGACGTT	GCCCCAATTG	2820
GTTGGAGTAA	GAGAAGCTGT	CTTCAAAAAG	CTTCATAACA	GGAACGACAC	CTGAAGCAGC	2880
TCCTTCATAG	CCTTTGATAG	GTGCACCAGC	TTCACGAAGG	TTGCTGAGGG	TAATTCCCAC	2940
ACCACCACCA	ATACGTGAAA	GTTGAAGAGC	TGAGTTGATA	GAACGCCCGA	TAGAGTTCAT	3000
ATCATCCGTC	ACTTGGATTA	GGAAACAAGA	TACCAACTCC	CCACGACGAG	CACGTCCAGC	3060
ATTCAAGAAG	GAAGGAGTAG	CAGGTTGGTA	GCGTTGGTGG	ATGATTTCAT	TGGCAATATC	3120
GATTGCAACA	GCTTCATTCC	CATCAGCGAA	ATAAAGGGCA	TTGAAGAAGA	CACGGTCTTC	3180
CATATTTTCA	AGATAGTATT	CACCGTCATT	AGTCTTTAAG	GCATATTGAT	TGTAAAATTT	3240
ATAAGCTGCC	ATGAATGACT	TGAATTGGAA	GTTTTGGTCT	TTGATAAATT	GAGCTAATTC	3300
TTCCAAGAAC	TCTGGACGGT	ATTTCTTGAT	AAAGGCTGTT	TCGATGTAGT	TGTGTTCAAT	3360
GAGGTAATTG	ATTTTGTCTT	TGATTGAATC	AAAAACCATA	GTGTTTGGAA	CTACATTTTC	3420
TTTAAAGAAA	GCATCCAAGG	CTTCCTTGTC	TTTATGAAGC	ATGATTTGTC	CATTAACAGG	3480
ACGGTTAATT	TCGTTATTAA	GACGGAAGTA	AGTCACGTCT	TCAAGATGTT	TTAATCCCAT	3540
AAAATTTCCC	TTATCTAATT	ACAAAAGAAA	GGCTTCTAAG	TTAGCCCTAA	AAGCAGTTTC	3600
TTCTGGATGA	TGTACTAAGA	TTATGCTAAT	TGTTTCAGTT	TTCCTGGTTG	GAAACCTGAA	3660
AAGACTTCAG	TTGGTGTTTG	GATAACAGGA	GCTGCGCTAA	AACCGAGCTC	TTTAACTTGA	3720
TCGACGTACT	CAGGTTGCTC	ATCAAGATTG	ATTTCACGAT	AAGAGACATT	ATTACTGTCC	3780
AAGAAACGCT	TGGTCATTTT	ACATTGGACA	CAATTGTTTT	TAGAATAAAC	GGTTACCATT	3840
GTGTAACTCC	TCTTCAAAAT	TTAATACTAT	CTTAGTATAT	CAGAAAATAA	AATTTTGTCG	3900
GG .						3902

(2) INFORMATION FOR SEQ ID NO: 213:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2456 base pairs

 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 213:

TATTGAAGCT ATTGTAGACT ACAAAGATAA GGATTTGCAG TTAGTAGGCG GTGAGACTCA 60 CTGATAACCT AAAAAGGATA GTCAATTATG CTTGTTTACT AACTATTAAC TATGCTAAAT 120

			1212			
CAATTGAGGT	TGTTTACATA	AAACTCTATA		CTGATATAGA	GTTTTTTCTT	186
GCTAGTTTTA	GGATTTTTTT	GTAAAATAGA	AAAAGTGAAG	AGAGGTATGA	AATGAGCAAG	240
AAAGATAAAA	AAATCGAAAT	TCAAGTAGCG	GATGCCAAAG	TTAATGTTGG	TAAAGACAGT	300
TTTGAAGGTT	ATACATTGAC	TATCGGTAAA	AAAGTTATCG	GAGAAATTGC	CGAATTAGAC	360
GGACAATTTG	CCATTATAAA	GAATGGGAAT	GTCGATAGTT	TTTATAAAAA	ATTGGAAAAA	420
GCTGTGGAAA	TTTTGATTGA	AAATTATAAT	TTAGCAAAAT	AAGTCTTGTT	TTTTTGAAAT	480
TTTCATGATA	TAATAGTCCA	TGTTGATTGT	AGGAGAGATA	GCGAAGAGGC	TAAACGCGGC	540
GGACTGTAAA	TCCGCCCCTT	CGGGTTCGGG	GGTTCGAATC	ССТСТСТСТС	САТТТСАТТА	600
ATGGGGTATA	GCCAAGCGGT	AAGGCAAGGG	ACTTTGACTC	CCTCATGCGT	TGGTTCGAAT	660
CCAGCTACCC	CAGTTCTTAG	GTAATAATCA	AGATAGAAAG	СААААТАТСТ	TAGGGTATTT	720
ATATTTTATA	ATTGAAAGAC	GTGAATGATA	TGAACATGTC	CTTGCGGGTG	CTTAGGAAAA	780
AAATTATAAG	TATGTCAAGT	TTAAGAAAAA	CTTGATTGTT	GGAGGATTTT	TTAGATGAAC	840
Gaatttgaag	ATTTGCTAAA	TAGCGTTAGT	CAAGTTGAGA	CTGGTGATGT	TGTTAGTGCT	900
GAAGTATTGA	CAGTTGATGC	GACTCAAGCT	AACGTTĢCAA	TCTCTGGÁAC	TGGTGTTGAA	960
GGTGTCTTGA	CTCTTCGCGA	ATTGACAAAC	GATCGTGATG	CAGATATCAA	TGACTTTGTT	.1020
AAAGTAGGAG	AAGTATTGGA	TGTTCTTGTA	CTTCGTCAAG	TAGTTGGTAA	AGATACTGAT	1080
ACAGTTACAT	ACCTTGTATC	TAAAAAACGC	CTTGAAGCTC	GCAAAGCATG	GGACAAACTT ·	1140
GTTGGTCGCG	Aagaagaagt	TGTTACTGTT	AAAGGAACGC	GTGCCGTTAA	AGGTGGACTT	1200
PCAGTAGAAT	TTGAAGGTGT	TCGTGGATTT	ATCCCAGCTT	CAATGTTGGA	TACTCGTTTC	1260
GTACGTAACG	CTGAGCGTTT	TGTAGGTCAA	GAATTTGATA	СТААААТСАА	AGAAGTTAAC	1320
GCTAAAGAAA	ACCGCTTCAT	CCTTTCACGT	CGTGAAGTTG	TTGAAGCAGC	TACTGCAGCA	1380
SCTCGCGCTG	AAGTATTCGG	TAAATTGGCT	GTTGGTGATG	TTGTAACTGG	TAAAGTTGCT	1440
CCTATCACAA	GCTTCGGCGC	TTTCGTCGAC	CTTGGTGGTG	TTGACGGATT	GGTTCACTTG	1500
ACTGAATTGT	CACATGAACG	TAATGTATCA	CCAAAATCAG	TTGTAACTGT	TGGTGAAGAA	1560
attgaagtga	AAATCCTTGA	TCTTAACGAA	GAAGAAGGAC	GTGTATCACT	TTCACTTAAA	1620
GCAACAGTAC	CAGGACCATG	GGATGGCGTT	GAGCAAAAAT	TGGCTAAAGG	TGATGTAGTA	1680
GAAGGAACAG	TTAAACGTTT	GACTGACTTC	GGTGCATTTG	TTGAAGTATT	GCCAGGTATC	1740
GATGGACTTG	TTCACGTATC	ACAAATTTCA	CACAAACGGA	TTGAAAATCC	AAAAGAAGCT	1800
TTAAAGTTG	GTCAAGAAGT	TCAAGTTAAA	GTTCTTGAAG	TTAACGCAGA	TGCAGAACGC	1860
TGTCACTTT	CTATTAAAGC	TCTTGAAGAA	CGTCCAGCCC	AAGAAGAAGG	ACAAAAAGAA	1920

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GAAAAACGTG	CTGCTCGTCC	ACGTCGTCCA	AGACGTCAAG	AAAAGCGTGA	TTTCGAACTT	1980
CCAGAAACAC	AAACAGGATT	TTCAATGGCT	GATTTGTTTG	GTGATATCGA	ACTTTAATCA	2040
ааттбаааат	TCACAAAATC	CTTTGTTTAC	TAAACAAGGG	ATTTTTCTGG	CTCTTTGTCA	2100
ACTGTAGTGG	GTTGAAGAAA	AGCTAAGCTC	GAGAAAGGAC	AAATTTTGTC	CTTTCTTTTT	2160
TGATATTCAG	AGCGATAAAA	ATCCGTTTTT	TGAAGTTTTC	AAAGTTCCGA	AAACCAAAGG	2220
CATTGCGCTT	GATAAGTTTG	ATGAGATTAT	TGGTCGCTTC	CAGTTTGGCG	TTAGAATAGT	2280
GTAGTTGAAG	GGTGTTGACA	AGCTTTTCTT	TATCTTTGAG	GAAGGTTTTA	AAGACAGTCT	2340
GAAAAATAGG	ATGAACCTGC	TTAAGATTGT	CCTCAATAAG	TCCGAAAAAT	TTCTCCGGTT	2400
CCTTATTCTG	AAAGTGAAAC	AGCAAGAGTT	GATAGAGCTG	ATAGTGGTGT	TTCAGG	2456

(2) INFORMATION FOR SEQ ID NO: 214:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10974 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 214:

AAATAGGATA TAGAGACATC CTTCTGATCT GCTTTTWACA AAGTCCAATT ATATGCGGAT 60 CTATACCTCC ACAATGTCCA TTATTATMCC TAACTATAAT ATGAGCCGAA AACACTATAT 120 CCTTAATGTC TCCATATCCA TCAGGGATAT TAATATTTAT TTTTCCACAA CTATATTGCA 180 TTGTAACCAT CTCCTTAAAC GACGCATTAT GATATTTGAT AGAGAAATTT TTATGAATAA 240 CTCAATAATT TTATAGTAAA TCATGCTTAT ATCTCAAAGA TACCTATTTT ATCTTGTCTC 300 GACCTTCTCC AAAGAATTGC TATAATACTA TTACAAATCC ATCTGCACTA CACTTCAAAT 360 TTTAGCACTG TATAAAAACG TTTCAATACA CTAACTTCAA GAAAACTTCC ACTATTAATT 420 GAAAAAATTG ATAGAGATAA ATTAAAAATC TATATTGAAA CTCATCCCGA TGCTTATTTG 480 ACTGAAATAG CTGCTGAATT CAACTGTCCT CCAACAACTA TTCATTACGC TCTAAAGGCT 540 ATGGGATATA GTCTAAAAAA GAGCCGTACC TACTGCGAAC AAGACCCAGA AAAAGTAAAT' 600 CGGTTCCTTA AAGAATTGAA TCACTTAAGC TACCTGACTC CTATTTATAT TTATGAGACA 660 GGGGTTGAGA CCTATTTTA TCTCGAATAT GATCGAGCCT TGAGCAGGCA GTTAGTCTCT 720 CTGGAAGAAG ATATAATTAT TTGAATTAAG ATCGAGACAA CGCACACCAG AGATTGCGAT 780 ACTGTTATAG AAGTACTAAT GCCCTTTTTT GTTTCAATAT ACTATGGCTC CGATGACCTA 840

			1214		•	
TAAAGATACG	ATGACGAGTG	ACTTTTTCGA		CAAAAATTCT	TACTACCTAC	900
TTTAGATACA	CCATCCCTTA	TCATTATGGA	CAATGCAAGG	TTTCACAGAA	TGAACATGTG	960
TAAGGAGCAG	GGCATAGACT	GTTACCACTT	CCTACCTATT	CACCCGAGTA	TAATCCCATT	1020
GAGAAAATAT	GGGCTTACAT	CAAAAACATC	TCAGAATAAT	ATTGTCAAAT	TACGATGCTT	1080
TTCTTGAGGC	ACTTTTGTCC	TATTCTTGTT	TCAGCCGACT	ATACTCCGTT	ATTGGGCAGC	1140
TACGGAACAG	TCGATGGGAC	GATGGGGGGA	САТАААААА	TCCTCCAGTT	TTGTTTTTTA	1200
TAACAGTATA	CTGGAGAATT	GACAATCTCG	GTAGATACCT	CGTTATAGCG	CGGTTACTTA	1260
TTAGGCAGTT	ACAAAACAAC	TGTGAACAGA	AAACATTCCA	GAGTCAGACA	AGACTTTGGA	1320
ATGTTTTGGC	TCTATAATTT	CTGTAGTGGG	TAATCCCACC	CCAGGAATTA	TAGGGTCGTT	1380
TCTTGTAGAA	AAAAAGCCCC	ATATGACCTA	TAATGAAAAG	CGTCTAACCA	ACTCATTAGA	1440
AAGGGTTCAT	ATGGAACAAC	TTAAGAATAC	CACAGATTTG	CTCGGATTGG	AAGACAAAAA	1500
TATCAAAATC	TTGTCTGTTC	TGAAATACCA	AACCCATCTA	GTCGTTCAGG	CAAAGTTGGA	1560
TTCCCCCGCT	CCTCCTTGTC	CTCATTGTCA	AGGGAAGATG	ATCAAATACG	ACTTCCAGAA	1620
AGCCTCTAAA	ATTCCGCTTC	TCGACTGTCA	GGGTTTACCC	ACGGTACTGC	ATCTCAAAAA	1680
GCGCCGCTTT	CAGTGCAAGA	ATTGCCTTAA	GGTGGTCGTT	TCTCAAACAT	CCATTGTCAA	1740
GAAAAATTGC	CAGATTTCCA	ACATGGTGAG	АСААААААТС	GCTCAGCTCC	TCCTTGAAAA	1800
GCAGTCTATG	ACTGAGATTG	CCCACAGATT	GGCGGTCTCA	ACTTCCACCG	TCATCCGAAA	1860
ACTGAGGGAA	TTTAAGTTTG	AAACCGATTG	GACCAAGTTG	CCAAAAGTTA	TGAGTTGGGA	1920
TGAGTATAGC	TTCAAAAAGA	GCAAAATGAG	CTTCATTGCC	CAAGATTTTG	AGTCCAAATC	1980
CATCCTCGCA	ATTTTAGACG	GGCGAACTCA	TGCGGTGATT	CGAAACCATT	TCCAACGCTA	2040
TCAGAGAGAG	GTTCGGGAGC	TGGTCGAGGT	CATCACCATG	GACATGTACA	GCCCTTATTA	2100
TCGGCTCGCT	AAGCAACTCT	TTCCAAAGGC	GAAGATTCTT	CTTGACCGCT	TCCACATTGT	.2160
CCAACATCTG	AGCCGAGCTA	TGAACCGAGT	ACGAATCCAA	ATCATGAACC	AATTTGACCG	2220
AAAATCCTTG	GAGTATCGGG	CGCTCAAGCG	CTTTTGGAAC	CCTCGCTTTT	TCGTTTCTAG	2280
GCTCGGGCTA	AATCAGTCCA	CTGGACTGAT	TTACTACACC	AGTATAGCTT	CAAGCTCTGT	2340
CAGAAACGAT	TCTATCAGCC	CACGTTTCGA	ATGCACTTAA	CCCATCGGGA	AGTACGAGAT	2400
AAGCTGCTTT	CTTACTCTGA	GGGATTACAG	GTTCACTACG	AACTCTATCA	ACTCCTGCTC	2460
TTTCATTTTC	AAGAGAAGAA	TGCCGACCAT	TTCTTTGGAT	TGATTGAGCA	AGAACTGCCA	2520
ACGGTTCATC	CGCTTTTTCA	AACGGTCTTT	TGGACTTTTT	TAAGGGATAG	AGATAAGATT [*]	2580
ATCAACGCAC	TTAAGCTGCC	TTATTCCAAC	GCTAAACTTG	AAGCGACCAA	TAATTTGATT	2640

AAGATTATC À	AGCGCAAAGC	CTTTGGTTTC	CGGAACTTTA	ACAATTTTAA	AAAACGGATT	2700
TTGATGACTT	TGAACATCAA	AAAAGAGAGT	ACGAATTTCG	TACTCTCCAG	ATTGCAGCTT	2760
TTCGCCTACC	CACTACACTT	GACAAAGAGC	CACTCTTTAT	TCCATGGTAT	CAAAGGCAAG	2820
ACTTGGTTTG	GCATTGAGGT	CCCAGCCTGC	GAAGTTTTCT	TTGTTCCACT	CGCTGACGCT	2880
GGCATAGGCA	ATCATACCTG	CATTGTCTCC	GCAGAGTCGC	AGAGGGGGA	TGATAACCTT	2940
GACATCTGTG	ATTTCGGCTG	CTAGGCGTTC	TCTGAGACCT	TTATTGGCTG	CCACACCACC	3000
TGCCACAACT	AGGATTTTAA	CAGGATATTT	CTCCAAAGCC	TTCTTGGTTT	TTGCCATGAG	3060
AATGTCCATA	ACTGCTGCTT	GGAAGGAAGC	ACACAAATCT	TCTGTAGACA	GGCTTTCTCC	3120
CTTTTGCTCG	GCATTGTGAT	GAAGATTGAT	AAAGGCAGAT	TTCAAACCTG	AGAAGGAGAA	3180
CTCCAGATTA	TCTTCCTTAA	TCATGGCACG	GGGGAAATCA	TAAATATCCT	GCCCCTGATG	3240
AGCCAGCTCG	TCAATCTCAC	GACCTGCAGG	ATAGGTCAAG	CCCATGACAC	GGCCGACCTT	3300
ATCATAAGCC	TCACCAACCG	CATCATCACG	GGTTTCCCCA	ACAATCTTAT	AATCTCCTGC	3360
CTCCGAAACA	TAAACCAACT	CTGTGTGTCC	GCCGCTGACC	AAGAGGGCTA	GCAAGGGAAA	3420
CTCCAAAGGC	TCCACACTCT	GAGCTGCCAT	GAGGTGCCCA	GCCATGTGAT	TAACAGGAAT	3480
CAGTGGAAGT	CCGTGAGCCC	AAGCAAAGGC	CTTGGCAGCT	GACAAACCAA	CTAGCAAGGC	3540
TCCGACCAAG	CCTGGTCCGT	AGGTAACCGC	AACAGCTGTC	ACGTCCTCTT	CGGTAATCCC	3600
TGCTTCTGCC	AATGCCTCCT	CGATACAGGC	TGTAATGACC	TCGACATGGT	GACGACTGGC	3660
TACTTCGGGC	ACTACGCCAC	CAAAACGTTT	GTGACTCTCA	ATTTGACTAG	CAATGACATT	3720
GGACAAGAGC	TCATCGTCGT	TTTTCAAGAC	GGCGACACTG	GTCTCATCAC	AGGATGTCTC	3780
AAATGCTAAA	ATATATCTAT	CCTTCATCTA	TTTCTCTCTT	CATGATAATG	GCGTCCTCGA	3840
CTGGGTCATG	GTAGTAGGCC	TTTCGCTCAG	CGATAACTGT	CATCTTTTCT	TTCTTGTAAA	3900
ATGCTTGCGC	TCGTTGATTT	GACTGTCTGA	ĆTTCGAGGAA	AATTTCCTTG	TCTGTCGGCA	3960
ATTGAGCAAA	CAAGGCTGAC	GCAATCCCCT	GACCCTGATA	AGCTCCTTTG	ACAGCGATTT	4020
GCAGGACTTC	TGCTTCAAAA	AGATTCTCCT	GCACAGCTAG	AAATCCAATC	ACTTCTGCCC	4080
CATCATAAGC	CAATGCATAC	CAAGTCTGGT	CTTGGGACAG	ATCTGCTTGG	ATTTGCTCCA	4140
GAGTCCAAGG	ACTGACTAGG	TAAACAGCTG	CCATAACAGC	GTAGATGGCT	TGAGCTAGGT	4200
CAGGCTGTTG	TTGAATTCGC	TTGATTTCTA	TCATAGGCGT	TTAATGTAAG	ACTCGCCAGA	4260
CTCGGTATGG	TTCTTGAGCC	AGTTTTCCTC	AGCCTCGACT	CGTTTGAGGT	AATTCGGCAC	4320
AAAATCATGC	AAGGAGTCTG	CTTCCTTGTC	CCAGGCCAAA	AGAGCTAGAT	TAGCTGCATT	4380

			1216			-
GGGCAATGTT	TCTTTGTAAT	CAGTCCTTGG	CAAGTGTTTT	TGAATCTGCT	CAACAAAGGG	4440
GCCAACTTCT	CCGACAAAGG	TTACCTGACT	AGTACCCTTG	ACTTTTTCTA	GCACCTCTTC	4500
AAAAGATAGG	TGCGCTTCTG	CCATGACAGG	TTTGGCATTT	ТСАТААААТС	CTGCATAAAC	4560
ATTATTGCGA	CGCGCATCCA	TCAAGGGGAC	AAACAAACCT	TCTTGTTGAT	GGGGCACCAG	4620
AGCCAAGAGA	CTCGACATAC	CAACCAACTC	GATGTTCAGG	GTGTGAGCTA	AGGTCTTAGC	4680
AGTTGCTACC	GCAATTCGCA	AGCCTGTATA	GCTACCCGGC	CCTTCAGCTA	CCACGATTCG	4740
GTCCAAATCC	TTGGGTGTCC	AATCCAAACT	TGCCATCAAA	AAATCGATGG	CAGGCATAAG	4800
AGTAATACTG	TGATTTTTCT	TAATATTAAT	CGTCGTCTCG	GCAAGAACCT	GCTTATCCTC	4860
TAAAATAGCC	AGAGAAAGAG	CCTTGCTGGA	CGTATCAAAA	GCTAATACTT	TCATAACACA	4920
TTCCTATCTT	TTTGTCTGCT	TACTATTATA	CTACAAAAGC	TGGCACATGG	GAATTTTCTT	4980
TGCCCCCAGA	CAAGAGTGCC	CTCACTTAAC	TAAAAATAAT	TTAAAAAAAT	GCTCACTTTT	5040
CCTTTTCTTT	TCCGAATATA	AAAGTGAACA	AGAAAAAAGG	AGGAAAGTTC	AATGACAAAT	5100
TTTGACATTC	TTGACAATCA	ATTTTTATCC	TTATCTGAAA	ATGAATTATC	AGATATTGAT	5160
GGCGGTCTCG	CTCCCTTGGT	TATCTTTGGA	GTAGCAGTAT	CTTGGAAGGC	TATTGCAGGT	5220
GGAACAGCAC	TTATAGGTTC	TGGTTTGGCA	GCTGGTTATT	TTTTAGGAGG	AGATTAATAT	5280
GATGAAAGAT	TTGAACAATT	ATCGTGAAAT	TTCTAATAAG	GAATTGCAAG	AAATCAAGGG	5340
TGGCTTTGGT	GTCGGTGTTG	GTATCGCTTT	ATTTATGGCA	GGTTATACCA	TTGGAAAAGA	5400
CCTTCGTAAA	AAGTTTGGTA	AGTCATGCTA	GATAAGAAAC	ACATTTTTAG	AAGGATAAAT	5460
TTTATTGTCT	TCATCTCTTA	CAGTTTGCTC	AGCATTCTCA	ATGATTTGAA	CATTACTACC	5520
ATCCCTTTAC	CATTCGATTT	ATCTGTTTGT	ATTGTTTTAT	TTTTATGCTT	CAACTCTATT	5580
TTTGATCAGA	ACAATGACTC	CCATAAAAAT	AATAAGCTTT	GAAAATTCCA	TTGTCATGTC	5640
atgttagaaa	AATGCAAAGA	CCACCTCATC	TTGATAGATG	GGGTGGAATT	TTCGTGTCGT	5700
ааатстаста	TCTCTACATT	CCCAAACAAA	AAACCCCAGC	ATAAGCAGGG	CATCTAAGCA	5760
ТТТААТТСАА	AGTAAAATAC	AAACCAAACG	ACATAGGTCA	CGAGGAGGAG	AAAAAGCGAG	5820
TAGAGAGTCA	CAAAGGTCAT	TTTCCACAAG	AACTTGGTTT	GTCGTCGTTC	CAGTTTGGCA	5880
aatagaagat	TCCCCGCATA	AACGCAAGCA	ACAAAAACAA	TAAAAGCTAC	CAAGCGAGCT	5940
CCGATAGCAA	AAGCAAATAA	GTTATACATA	GGGCAACCTC	CTTGACTTAA	AATCTATATG	6000
GAATTATGAC	AAGCAATAAA	TTTCACTTCC	GTTATCAACA	TAATACATTT	TCTTTATTTT	6060
TGAAAACGCT	TACCAAAGAA	ATCGTCCCCT	AACTTTCTCG	TTTCCGTCTT	TTACTAATTT	6120
TTCATTTTGT	GGTATAATTG	AAATAATTGT	AACGAATCAA	GGTCAATCTA	GACACAAAAT	6180

GGAATGAAAT	CAAGCAAATA	TCTGCTAAAA	GTTTGGAATA	AGCTGACCTG	TAAATAGAAA	6240
GGAACTATAT	GATTTACAAA	GTTTTTTATC	AAGAAACAAA	AGAACGTAGC	CCACGCCGTG	6300
AAACAACACG	CACGCTTTAC	CTAGACATCG	ATGCCAGCTC	AGAACTTGAG	GGCCGTATCA	6360
CTGCTCGCCA	ACTTGTCGAA	GAAAATCGCC	CAGAGTACAA	TATCGAGTAT	ATCGAACTCT	6420
TGTCTGACAA	ATTGCTCGAT	TACGAAAAAG	AAACTGGCGC	CTTCGAAATT	ACGGAGTTCT	6480
AATATGGCCT	ACACTCTTAA	ACCTGAAGAA	GTCGGCGTTT	TTGCCATCGG	TGGTCTAGGA	6540
GAAATCGGGA	AAAACACTTA	CGGAATTGAA	TACCAAGACG	AGATTATCAT	CGTCGATGCT	6600
GGGATTAAAT	TCCCAGAAGA	TGACTTGCTT	GGTATCGACT	ATGTCATTCC	TGACTACTCT	6660
TACATCGTGG	ACAATATCGA	CCGCGTCAAG	GCTGTTTTAA	TCACACACGG	ACACGAGGAC	6720
CACATTGGTG	GGATTCCGTT	CCTACTCAAG	CAAGCAAATG	TCCCTATTTA	TGCTGGACCG	6780
CTTGCCTTGG	CTTTGATCCG	TGGGAAACTC	GAAGAACACG	GCCTCTTGCG	CAACGCCAAA	6840
CTTTACGAAA	TCAACCACAA	CACCGAGTTG	ACCTTTAAAA	ATCTCAAGGC	AACTTTCTTT	6900
AGAACGACTC	ACTCTATTCC	AGAGCCTTTG	GGGATTGTCA	TTCATACTCC	TCAAGGGAAA	6960
ATCGTCTGTA	CGGGTGACTT	TAAGTTCGAC	TTTACTCCAG	TTGGAGAACC	TGCGGACTTG	7020
CATCGTATGG	CTGCGCTTGG	TGAAGAAGGC	GTGCTCTGTC	TCCTGTCTGA	CTCGACAAAT	7080
GCGGAAGTAC	CAACCTTTAC	CAACTCTGAA	AAAGTCGTTG	GTCAGTCCAT	TATGAAGATT	7140
ATCCAAGGTA	TTGAAGGACG	TATCATCTTT	GCATCCTTTG	CCTCAAATAT	CTTCCGTCTC	7200
CAGCAGGCAA	CAGAAGCTGC	TGTTAAGACT	GGACGCAAGA	TTGCGGTCTT	TGGTCGTTCT	7260
ATGGAAAAGG	CCATTGTCAA	CGGAATCGAT	CTTGGCTACA	TCAAAGCTCC	TAAGGGAACC	7320
TTTATCGAGC	CAAATGAAAT	CAAAGATTAT	CCTGCAGGAG	AAGTTCTTAT	CCTCTGTACA	7380
GGTAGTCAGG	GTGAGCCTAT	GGCAGCCCTC	TCTCGTATCG	CCAACGGAAC	CCACCGTCAA	7440
GTACAATTAC	AACCAGGTGA	TACCGTTATC	TTCTCTTCTA	GTCCCATCCC	TGGAAACACT	7500
ACTAGTGTCA	ACAAGCTGAT	TAACATCATT	TCTGAAGCTG	GTGTCGAAGT	TATCCACGGT	7560
AAAGTGAACA	ATATCCATAC	ATCTGGACAC	GGTGGTCAGC	AAGAGCAAAA	ACTCATGCTC	7620
TGCTTGATTA	AGCCAAAATA	CTTCATGCCT	GTCCACGGTG	AATACCGCAT	GCAAAAAGTC	7680
CACGCTGGAC	TAGCAGTGGA	TACTGGTGTT	GAGAAGGACA	ATATCTTTAT	CATGAGCAAT	7740
GGCGATGTGC	TTGCCCTTAC	TGCTGACTCA	GCTCGTATCG	CAGGTCATTT	CAACGCCCAA	7800
GATATCTATG	TCGATGGAAA	TCGTATCGGT	GAAATTGGCG	CAGCTGTCCT	CAAAGATCGT	7860
CGCGATCTAT	CTGAAGACGG	TGTCGTTCTG	GCAGTTGCAA	CTGTTGACTT	CAAATCGCAG	7920

			1210			
ATGATTCTAT	CTGGTCCAGA	CATCCTCAGC	CGAGGCTTTG	TCTACATGAG	AGAGTCTGGC	7980
GACTTGATTC	GCCAAAGCCA	GCGTATCCTC	TTCAATGCCA	TTCGTATCGC	ACTGAAAAAT	8040
AAGGATGCTA	GCGTGCAATC	TGTCAATGGT	GCCATTGTCA	ACGCTATTCG	CCCCTTCCTC	8100
TATGAAAATA	CCGAACGTGA	ACCGATCATC	ATCCCGATGA	TCCTCACACC	AGATGAAGAA	8160
TAAAGCAAGA	AAACAGCCCC	GTCCTCGGAG	CTGTTTTTCT	CTATGCTTTC	TTTTGAGATT	8220
AAAACTCATA	CTCAATGAAA	ATCAAAGAGC	AAACTAGGAA	GCTAGCCGTA	GGTTGCTCAA	8280
AGCACTGCTT	TGAGGTTGTA	GATAGAACTG	ACGAAGTCAG	TAGCCATACC	TACGGCAAGG	8340
CGACGTTGAC	GCGGTTTGAA	GAGATTTTCG	AAGAGTATCA	ATAAAAATCG	AAATCAGACT	8400
AGAAGGCTAA	GCGAAAGCAT	AACTTGAGTT	AGCTCCCATA	GTTCGGGAAA	CTATGGGAGG	8460
CTGGAGATGA	ATCAAAGCCA	AGCTTTGAAC	TCATTCGTAA	GAAGCCGACG	ACGTATCATT	8520
TTGATTTTTG	AAGAGTTTTA	GAAATACTAC	GATTTTTACC	TTCCAGATAC	ACCATCAAAA	8580
TAGAAATATC	TGCTGGGTTT	ACTCCCGAAA	TACGGCTGGC	TTGGCCGATG	GTTTCTGGAT	8640
TGATGAGTTT	GAACTTCTGA	CGGGCTTCGG	TTGCGATAGA	ATCAATGTCA	TCCCAGTCGA	8700
TATTGGCCGG	AATGCGTTTT	TCTTCCATGC	GTTTCATCTT	GGCAACCTGG	TCCATGGCTT	8760
TGGAAATATA	GCCTTCATAC	TTGATTTCTG	TTTCAATCAA	TTCGATAATC	TTGTCATCCA	8820
AGTCTTCTGC	AGCTGGTCCG	ATGAAGGCCA	CCACATCTTG	GTAAGAAACT	TCTGGACGGC	8880
GAAGGAATTC	CTTGGCTGTC	ACTGCATCGG	TCAAGGGTTT	GAAGCCCATC	TCCTCAACCT	8940
TGGCATTGGT	TTCCTTGACT	GGCTTGAGTT	TGATACTGTC	TAGGCGCTTC	ATCTCATTAT	9000
CAAATTGATT	TTTCTTGATT	TCAAAACGAG	CCCAGCGTTC	ATCGTCCACA	AGGCCAATCT	9060
CGCGTCCCAT	CTCAGTCAAG	CGCATATCAG	CATTGTCATG	ACGAAGAATG	AGACGGTATT	9120
CAGCACGACT	GGTCAAGAGA	CGGTAGGGTT	CAATGGTTCC	CTTGGTCACC	AAGTCGTCGA	9180
TCATCACCCC	GATATAACCA	TCACTGCGCT	TCAAAATCAA	TTCAGGCTTG	CCTTGGATTT	9240
TCAGAGCCGC	ATTGATACCC	GCGATAATCC	CTTGGCCTGC	TGCCTCTTCG	TAACCTGATG	9300
TTCCATTTGT	CTGACCAGCA	GTGAAGAGAC	CTGAGATTTT	CTTGGTTTCC	AAAGTCGCAC	9360
GCAACTGATG	AGGCAAGACC	ATATCATACT	CAATAGCATA	ACCTGTCCGC	ATCATCTCTG	9420
CATTTTCCAA	ACCTTTGATG	GAATGCACCA	AGTCACGCTG	GACATCCTCA	GGCAGACTGG	9480
TTGAAAGTCC	TTGCACATAG	ACTTCCTCAG	TATTGCGCCC	TTCTGGCTCA	AGGAAGAGTT	9540
GGTGACGTTC	CTTGTCCGCA	AAGCGCACAA	TCTTGTCTTC	AATCGACGGA	CAGTAAÇGAG	9600
GCCCCACTCC	CTTGACCACA	CCTGTAAACA	TAGGCGCACG	GTGGAGGTTG	TTTTGGATAA	9660
TCTCATGACT	GGTACCATTG	GTATAGGTCA	ACCAGCATGG	TACTTGGTCC	TTGACATAAT	9720

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CCTCATCACG	TGAAGTGTAT	GAGAAATGAT	TAGGCACTTC	GTCTCCTGGC	TGAATTTCTG	9780
TCACATCGTA	ATTGATAGAA	GAAGCCTTGA	CACGTGGAGG	GGTTCCTGTC	TTGAAACGAC	9840
CGATTTCGAG	ACCCAGTTCC	TTGAGATTGT	CAGCTAGGTT	AATAGAAGCC	AAGCTGTGGT	9900
TAGGACCTGA	TGAGTACTTG	AGGTCTCCGA	TGATAATTTC	CCCACGGAGA	GCAGTCCCTG	9960
TCGTCACAAT	AACAGCCTTA	GCAGCATATT	CTTGATGGGT	GGCTGTACGC	ACACCGACAA	10020
CCTTGCCATC	TTCCACCAAA	ATCTCATCAA	TCATGGTTTG	ACGAAGGGTC	AGATTTTCTT	10080
GGTTTTCAAC	CGTCTTGCGC	ATCTCCTTAG	AGTAAAGTTC	CTTGTCAGCC	TGCGCACGAA	·10140
GGGCACGGAC	AGCTGGCCCC	TTCCCTGTGT	TTAGCATCTT	CATCTGGATG	TAAGTCTTGT	10200
CAATGGTTTT	GGCCATCTCG	CCACCGAGGG	CATCGACTTC	ACGCACGACA	ATCCCCTTGG	10260
CAGAACCACC	GATAGAGGGA	TTACAAGGCA	TGAAAGCCAG	CATTTCAATA	TTGATGGTCG	10320
CAAGCAGGAC	CTTACAGCCC	ATACGGCTAG	CGGCCAAGGA	AGCCTCAACC	CCAGCGTGTC	10380
CCGCACCAAT	ТАСААТААТА	TCGTATTCTT	CAGTAAAATG	ATAAGTCATG	TTTCTCTCCT	10440
ATTCCTCAAG	ATGAATGTGT	CTTAGTTGGC	CTTCCCAATC	TGGTAGGGCT	GTTTTTAAAA	10500
AGACTGGAAC	TAGCTGGATA	TTCTGGAGCT	TATCCAAGTC	AATCCACTCA	CAGGGCTGCC	10560
TTTTCTCATC	TTCCTGCATG	GTCAACGGGG	CATCTTCAAG	CAAATCCACC	AGATAATGAA	10620
ACTCGATATT	GTGATAGGAA	ACGCCGTCCA	CTTCAAAACG	ATTTTCAACC	ACAAAAGCTA	10680
GCTGCCCAGC	TTGAGCTTTG	ACACCCAGTT	CTTCCTTCAC	TTCACGGACT	ACCGCGTCTT	10740
CCGTGCTTTC	ATTGACTTGA	ATCGCACCTC	CAATAGTGTA	ATACTTGCCC	TTGTCTTTGG	10800
TAACTAGAAG	CTTGTGATTT	TGGACAATCA	AGGCTGTAGC	CCGAACACCA	AAAACCGTAT	10860
TGTCTACTTT	TGTCCGAAAG	TCTTGTTGAG	TCATTCTTGT	CCTTTCCCTT	AAACGACACA	10920
AAAACAGTCA	AAACTACAAA	GAAGTGCAGG	ACAAAAAAGC	CTGCAACATC	CAGG	10974

(2) INFORMATION FOR SEQ ID NO: 215:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 987 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 215:

CCCGTTATGA TTATGGATAG CGCTTTCAAA TTTTTAAACT CCTATCCCAT CCTTTTATCT ATATAATAAG TGAAAATATA ATAACTGTCA AGTAACTGAA GTGAATTTTA TAAAAAAATT

			1220			
ACAAGCCAAA	TTTGTAAAGT	TTACACTAAG	CCGCTAGgCA	ATCGTCTATC	AGAATATCCG	18
TTTATTTGTC	AATAATCCGA	GAAAATCTTG	CAACGCTTAG	AAGTCTATAA	AAACTATCAA	24
CATTTATATG	ACTTGCGAAT	AGCAATCCTG	CTAAACCTTT	CCACACTCTA	TCTATACAAT	30
CAAGATAAAA	ACATGTGTAA	GCAAATCTGC	TACACTTTAC	TGGAGGACGC	CAAGAATAAG	36
AAAAGCTACG	ATAGGCTTGC	TATCTGCTAT	GTCCGTATTG	GGATTTGTAC	AGACGATTCT	42
AAACTTATCC	AAAAAGGGTT	CTCCCTTCTG	GAGCTGACCG	AGGAAACTTC	TATGCTGTCT	48
CATCTCAAAA	AAGAAGTAGA	GACCCATTAT	CAACCAAAGA	ААТТАТАААА	AAAGTCGAGG	54
GAGCTCCTCG	ACCTTTTCAT	AGAATCGCCG	AACGATTTAA	CGAGAAAGTA	TGACTTTTAC	60
GTTTATCCCA	ACTCAATTAT	GACATTTTTT	TCAAAAGTCA	ATATATCTCA	CTTTTTCAAC	66
GACAAGAAAG	AGGCTGATAA	TCTACCAACC	TCTTATTCTG	AACCCATCAC	TCCATCACTT	72
TTTAGCTTCA	TTCGCTTTCT	TAGCGACTGC	AATCTGGTAT	TCGACTTGGT	CATTCCCCTT	78
ACCGGTACAA	CCATGAGCAA	TTGTAGTCGC	TCCTATCTGA	TGCGCTATTT	CAACCAATTT	84
TTTAGAAATC	AGAGGGCGGC	TCAAGGCAGA	TACCAAGAGA	TACTTTTGTT	CATAATAGGC	90
ATGTGACTGA	TGAGCCACTA	GCACATAATC	TGTAGCAAAT	TCGTCCTTAA	CATCAATGAC	96
ATAAGATTCT	ACTGCCCAAA	CCTTAAG				98
(2) INFORM	ATION FOR SE	Q ID NO: 21	16:			
	EQUENCE CHAR (A) LENGTH: (B) TYPE: nu (C) STRANDED (D) TOPOLOGY	2651 base p cleic acid NESS: doubl	pairs			•

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 216:

CTGGGTCTTG	TTCATAGTAG	GTGTGGTtCT	TTTTTTCGAG	TGTAGCCCAT	AGCTTTGAGC	60
GCATAGTGGA	TGGTAGTTGG	ATGACAGCCA	AAGTCAGAAG	CTATTTCAGT	CAAATAAGCA	120
TCTGGATTGT	CAGTAAGATA	GTTTTTAAGT	CTATCTCTAT	CAACTTTTCT	TGGTTTTGTT	180
CCTTTTACTT	GGTGGTTTAG	CTCTCCTGTT	TTCTCTTTTA	GCTTTAACCA	GCCATAAATG	240
GTATTACGTG	AGATTTGGAA	AACGTGTGAT	GCTTCTGTTA	TACTACCTAT	TCGCTCACAA	300
TAAGAGAGAA	CTTTTTTACG	AAAATCTATT	GAATATGCCA	TAAGAAGATT	ATACCACATT	360
GTGTACTATT	TTTGGTTCAT	TTTACTATAT	TTTATAAGTT	ATAGTGTAGC	ATTCCAACTT	420
CAAAGCACTA	TAAAGTAAAT	TGAAACAAGA	ACAATACAAA	CAATTCTCGT	AAACGGATTG	480
CAACCACAAA	AAAGCAAGCA	TTCACAAGAA	TACTTACCTA	TCATGGGAGG	AACAACCGTT	540

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60	CAAATCCGTA	TTTTCAAGAG	TCCAATGCTT	TTCAAAGAAT	ATTACTAAAA	CCTCTTTTTT
66	ATCATCTGTA	CTTTTTCCAA	TCCCGCTGAA	TACTTCTATT	CTTCTTGGGC	PATTCTGGAT
72	ATTGACAGTC	CTTCTGAATC	TTGCTGATAG	GTGAAGAGAT	СТАСТССТАА	ATCACTCCAT
78	ATCCAAGGTT	CAAAATATTC	AGTTTGCTTA	CGTTGTCCAT	GTTTCTGATC	CAGACATAAA
84	GTAGGGCATG	AGACAGAATT	GTTTTAGGAA	TGTCGCTCTT	TAGTATATCC	SAGTACTCCA
. 90	ATGGTAGTCT	TTTCGACAAC	TGTCTTACTT	GGCATCATAC	CTGGTAGTTC	АТGAAA TAAA
96	TAAAAAGCGG	CATAACGGGC	AGCTTTGCAG	ATAAATCTTG	TTTGATGTCC	AAAGACTGGA
102	TTTTTGACCA	CAATTAGTAA	GTTTTAATTT	TTTTTTACTG	CTGGACTATC	PTCATCATGT
108	GTAGCCATTT	TTTTAGTCTG	AAGCTTGAAA	ATAATCTTCA	CTCGACTGAG	AGTTCGTTGG
114	TTTATTGATA	CTTGAGGACT	AAGTTTAAGT	AAGCTCCTCC	CAATCCCTTT	ТАТАААААЭТ
120	TTTTGTTTCC	ACTGCCCATC	ATCATGACAA	AGCATCATGC	TTTTCAAGTT	CCTGCTAGAT
126	GGACTCTACT	TAGTTTCCAA	AGTTGTGCTG	GTCTGGTTTG	TCTCCACCAA	TGCACGTCCG
132	AGGTAGATGA	AAATAAGTTG	CCTCGGTGAG	ATTGGAAACC	TCCCATTTGC	STATTTTGAA
138	GGCACAAGTC	AGAAAAGACT	TCTAAGGCAA	AATATAACCT	CCTCCAGATA	ACCATGGGAG
144	CAGCTCCTTT	GAAGCATATC	TCTCTCCTAG	GTGATCTTTT	ATCGCACGAT	ATGACACCCC
150	ATAGAGATTT	GAGCCATATA	AAATAAGTCA	TTTAACCAAA	ATGAAACAAA	CTGTCAAAA
156	GATATCATCT	CTCTCTGAGT	ATCAGAGACT	AATACCAAGA	CAAAATTCAA	TTAATCACGA
162	ATGTGCTTTG	Araataa	AAAGGAAGAT	TAAAGGAATC	GAGCCAATAA	ACCAAAGTTT
168	TTTCTCCAAG	TCTTCTTGGT	AAAGTAACTC	CCAAGCATAA	AAAATAAATT	GCAAGATGT
174	AAGGGCAAAC	CAATCTTCGG	TGATCATATA	AACAGTCAGC	CTGCTTCTCG	CTAAACATCA
180	CAGCCACCAC	GTAGGATGCT	AGAGATAGAA	GAGAAAGATA	CAGAGACATA	ATCAATCTGA
186	TTTATTAAGA	GAATGACGAT	ATAAACTCTG	ATAAGCTTGG	TATCTTCTAA	ATCCAATATC
192	GAAAAAGATA	TAGCTATATA	GGAAACAGCA	CCGTATAAAA	TCAGCATTTT	TOTAAATAAT
198	GAAAACCTTG	AACTTTCATG	-ATAAATCCAA-	TAGCTTTTTC	TAGCGCAAGT	ACAAGGCTT
204	ACCAATAAAG	GATGACGAGC	TTATAGAĞGA	TCGCTTTTCA	CAATTAGCCT	CGGATATACT
210	TAAAAAAGCT	CAATCAAGGC	AGGTTAATTA	AGCAACCAGA	TTTGAAAATA	AGGAGTCCTA
216	aataaaaa'ga	TGTTATAGGA	GCTAAGACAT	AGTAAGGATG	ATGGAGAATG	GACTAATCA
222	CCACAAATAC	TGAATGGTAC	AACCATGAAT	GAAGCTAGCC	GATCTAATAA	PAACCTGTCT
228	GAGGTAAATC	TATCAAGATC	AAGAGGATTT	GAAAAATAGA	TAAAAATCAA	CCACTATCA

			1222			. •
TGTTTAAGAC	CCAATTTTTT	AGGTTTTTCA	GGTTTCATAG	GCACTCCTAG	TCAAATAATT	2340
GAGACAAGTC	CAAGCCACCA	AAAGGATTGT	TTGATAAGCT	ACTTTCTGTC	TCTAACAATT	2400
CCCTAGCTTG	ATCCGACTCT	AAGAAGGATT	CGTAAACACG	CGCCGTCATC	CGAGCATCCT	2460
CTAAACTATT	ATGAGACTGA	CCTTGAAATC	CAAGAAATGA	GGCAACAGTT	TGCAATTTGA	2520
GATTGGCAAT	ACCATGTAAA	TCTGAACTCC	GACGTTCAAA	AGCTTCATCA	TACAAATCCA	2580
CCTTGTACTG	TTGGCTATAG	TCTAAACCAT	GCTCTGCTAA	AATAGGTAAA	TCACTTTTAG	2640
CAGCATTGTA	G			•	·	2651

(2) INFORMATION FOR SEQ ID NO: 217:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 5638 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 217:

CGTTATAATA	AACTTGTGAA	AAAATTAACA	AAGGATATCG	TTCCTTGAAA	GCTATGGAGG	60
AAAATATGGC	TGATAAAAA	ACTGTGACAC	CAGAGGAAAA	GAAACTCGTT	GCTGAAAAAC	120
ACGTAGATGA	GTTGGTTCAA	AAAGCTCTAG	TTGCCCTTGA	AGAAATGCGT	AAATTGGATC	180
AAGAACAAGT	TGACTACATC	GTTGCCAAAG	CATCAGTAGC	AGCTTTGGAT	GCCCACGGAG	240
AATTGGCTTT	ACATGCCTTT	GAAGAAACAG	GACGTGGTGT	ATTTGAAGAC	AAAGCAACTA	300
AGAACTTGTT	TGCCTGTGAA	CACGTAGTAA	ACAACATGCG	CCACACTAAG	ACAGTTGGCG	360
TTATCGAAGA	AGACGATGTA	ACAGGATTGA	CTCTTATTGC	TGAACCAGTT	GGTGTTGTTT	420
GTGGTATTAC	TCCAACAACA	AACCCAACAT	CAACAGCAAT	CTTCAAATCA	TTGATTTCAT	480
TGAAGACACG	TAACCCAATC	GTCTTTGCCT	TCCATCCATC	AGCACAAGAA	TCATCTGCTC	540
ATGCAGCTCG	TATCGTCCGC	GATGCAGCTA	TCGCAGCTGG	TGCTCCTGAA	AACTGTGTGC	600
AATGGATTAC	TCAACCATCT	ATGGAAGCAA	CAAGTGCCCT	TATGAACCAC	GAAGGTGTTG	660
CGACAATCCT	TGCAACAGGT	GGTAATGCCA	TGGTTAAGGC	GGCTTATTCA	TGTGGTAAAC	720
CAGCTCTTGG	GGTAGGTGCC	GGAAACGTTC	CAGCTTATGT	TGAAAAATCA	GCAAACATTC	780
GTCAAGCAGC	ACACGATATC	GTCATGTCTA	AATCATTTGA	TAACGGTATG	GTCTGTGCAT	840
CTGAACAAGC	AGTTATCATT	GATAAAGAAA	TTTACGATGA	ATTTGTAGCA	GAGTTCAAAT	900
CTTACCACAC	TTACTTTGTA	AACAAAAAAG	AAAAAGCTCT	TCTTGAAGAG	TTCTGCTTCG	960
GCGTCAAAGC	AAACAGCAAA	AACTGTGCTG	GTGCAAAATT	GAACGCTGAC	ATCGTTGGTA	1020

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ACCAGO	CAAC	TTGGATTGCA	GAACAAGCAG	GATTTACAGT	TCCAGAAGGA	ACAAACATTC	1080
TGCTGC	CAGA	ATGTAAAGAA	GTTGGCGAAA	ATGAGCCATT	GACTCGTGAA	AAATTGTCAC	1140
CAGTTAT	rtgc	AGTTTTGAAA	TCTGAAAGCC	GTGAAGATGG	TATTACTAAG	GCTCGTCAAA	1200
GGTTG2	AATT	TAACGGTCTT	GGACACTCAG	CAGCTATCCA	CACAGCTGAC	GAAGAATTGA	1260
TAAAG	TTA.	TGGTAAAGCT	GTTAAAGCTA	TTCGTGTTAT	CTGTAACTCA	CCTTCTACTT	1320
TGGTGC	TAT	CGGGGACGTT	TACAATGCCT	TCTTGCCATC	ATTGACACTT	GGATGTGGTT	1380
TTACGO	GACG	CAACTCAGTT	GGGGATAACG	TTAGTGCCAT	TAACCTCTTG	AATATCAAAA	1440
AGTCGC	GAAG	ACGGAGAAAT	AACATGCAAT	GGATGAAACT	TCCTTCAAAA	ACATACTTTG	1500
ACGTG	Аттс	AATTCAATAC	CTTCAAAAAT	GTCGTGACGT	TGAACGTGTC	ATGATCGTTA	1560
TGACCA	ATGC	CATGGTAGAG	CTTGGTTTCC	TTGATCGTAT	CATCGAACAA	CTGGACCTTC	1620
STCGCA	ATAA	GGTTGTTTAC	CAAATCTTTG	CGGATGTAGA	ACCGGATCCA	GATATCACAA	1680
TGTAA	ACCG	TGGTACTGAG	ATTATGCGTG	CCTTCAAACC	AGATACCATC	ATCGCACTCG	1740
TGGTGG	GTC	TCCAATGGAT	GCTGCCAAAG	TAATGTGGCT	CTTCTACGAG	CAACCAGAAG	1800
GGACT	rccg	TGACCTTGTC	CAAAAATTCA	TGGATATCCG	TAAACGTGCC	TTCAAGTTCC	1860
CATTGCT	PTGG	TAAGAAGACT	AAATTCATCG	CGATTCCAAC	TACATCTGGT	ACAGGATCTG	1920
AGTAAC	CACC	ATTTGCCGTT	ATCTCTGATA	AAGCAAACAA	CCGTAAATAC	CCAATCGCTG	1980
CTACTO	CATT	GACACCAACT	GTGGCAATCG	TAGATCCTGC	TTTGGTATTG	ACAGTTCCAG	2040
SATTIGI	rtgc	TGCTGATACT	GGTATGGACG	TATTGACTCA	CGCGACAGAA	GCATACGTAT	2100
CACAAAT	rggc	TAGTGACTAC	ACTGATGGTT	TAGCACTTCA	AGCCATTAAA	TTGGTCTTTG	2160
VAAATC1	rcga	AAGCTCAGTT	AAGAATGCAG	ACTTCCACTC	ACGTGAGAAA	ATGCATAACG	2220
TTCAAC	CAAT	CGCTGGTATG	GCCTTTGCCA	ATGCCTTCCT	AGGTATTTCT	CACTCAATGG	2280
CCATA	AGAT	TGGTGCGCAA	TTCCACACAA	TCCACGGTCG	TACAAATGCT	ATCTTGCTTC	2340
CATACGI	TAT	CCGTTACAAC	GGTACACGTC	CAGCTAAGAC	AGCAACATGG	CCTAAGTACA	2400
CTACTA	ACCG	TGCAGATGAA	AAATACCAAG	ATATCGCACG	CATGCTTGGA	CTTCCAGCTT	2460
CTACTCC	CAGA	AGAAGGGGTT	GAATCTTACG	CAAAAGCTGT	CTACGAACTC	GGTGAACGTA	2520
TGGGAT	rcca	AATGAATTTT	AGAGACCAAG	GAATTGACGA	AAAAGAATGG	AAAGAACATT	2580
TCGTA	ATT	AGCCTTCCTG	GCTTATGAAG	ACCAATGTTC	ACCAGCTAAC	CCACGTCTTC	2640
CAATGGT	raga	CCATATGCAA	GAAATCATCG	AAGATGCATA	CTATGGCTAC	AAAGAAAGAC	2700
CAGGACO	GCCG	TAAATAATTG	TTTATCAGTC	TAGAAGCAAG	ACAAAAACTC	AATTTGAGGG	2760

			1224		,	
AAAGATCCAG	TAATTTTTCT	ATGATAAAAG		AAGGTTTTTG	AACACCTGAT	2820
AGGATGCCTT	TTTATGATAT	TGAGGCCTTT	TTGCCCTTTT	TGAAAAACTA	GAATAGAAAC	2880
AAAATATATA	Atagattgaa	ACTAGAATAG	TACATATCTG	CTTCTAAAAC	ATTGTTAGAA	2940
TTCGATTTGA	CTGTCCTGAT	CGATTTGTCC	TGTTCTTATT	TCATTTTGAT	AAAAAATATA	- 3000
TATAGTATAG	TAGACTGAAT	CTAAAATAGT	ACGAAACAAT	TGCTAAAACA	TTTATAGAAA	3060
TTAATTTTAC	TTTTCTGATA	GAGTTGTTCA	CATCTTATTT	CAATTCACTA	TAGTTTAATT	3120
TAAGAGTAGT	ATTTACTAAG	GCCCAATTAA	AATCAAAGAG	CAAACTAGAA	AACGAGTGCC	3180
ATTCAGCTCA	AAACACTGAT	TTGAGATTGC	AGATAAGACT	AGCCCCCTCA	TTAACAGATT	3240
TACGATAAAA	CGATGACAAG	GTGTGTTGCT	TTTTGATTTC	TAAAGAGTAT	AATGATAGAT	3300
СТСТАТАААА	TAAGTGCGAA	GGAAATGAGC	TTTTATAGTC	CTTTCGTTTT	ААААТАСТАТ	3360
CTCAGATATT	CTTATATCGA	CAAGAAGTTT	TTGAGTCATT	CCCTCATCAT	ACATATTAAA	3420
TAAATAGTGG	CTCATTCAAT	TTTTCACTAG	AATAATAAGC	TAGTATAGTA	AACTGAAATA	3480
AGATATAAAC	AAATAAATTG	GAGCTTAACA	TCCATTTCCA	GCAATTTTTT	AGAAACTACA	3540
GTGGACTATT	CTAGATTCAA	CATATTATAA	AAACTAGAGT	AAAAGAAAAG	GATTGGATCT	3600
TGTGTAATGC	AGGATCCAAT	CCTTTCAATC	ATTTTGTCCA	ACTTTTGGAG	GTTCCTACAA	3660
TGTAGTCGTC	ATTAATAAAG	ACAGATGGGA	ATGACAGTGT	TCCTATTTAT	TTTGATAGAG	3720
ATCGATGAAT	TCTTTAGATA	GCAACTGAAT	AATCTCTGTT	GAAGCCATTT	GGTCTTCTGC	3780
ATGCATAAAT	AGCAAGGAGA	ATCCTATTTT	TTCTCCAGTA	GCTTCTTTTT	GTATGAGATT	3840
AGAGTGAATC	TTGTGCGCTT	CTACTAAGGA	GTCTTCCGCT	TCTTCAACTT	TAATTTTCGC	3900
ТТСТТТТААА	TTTCCTGCCT	TAGCTAGTTG	GATGGCTTCA	ATAAAGGATG	ATTTGGCTGC	3960
TCCACTATTG	GCAATGAGCT	GAAAACAGAT	ATATTCCATT	TCTTCTGTCA	TCTTATTTCT	4020
CCTATCCATG	CAAGTGCTTG	TTCCAGAACT	TTTGCTCCAT	TCATCATTCC	GTAATCCCGC	4080
ATATCAATGG	TATCTACAGG	GATATTTCCT	GCAATTTCTT	TCACAGCAAG	TAACTCATAA	4140
CGAATTTGTG	GCCCAATTAG	AATGACATCT	GCTTCATGGA	TATTCTTTTT	AGCTTCTGTC	4200
ATTGATTTTG	CTTGGATAGA	GATTTCAATC	CCACGTTCAG	TCGCACTTTG	TTGCATTTTT	4260
TTAACAAGCA	TACTTGTCGA	CATTCCCGCA	TTACATACTA	ATAAAATTTG	TTTCATAATC	4320
TTAACCTTCC	ATTTCTTGTT	CAACAACTTT	GTCATTAACT	TTGATAAATG	GAATGTATAG	4380
AAGAACTCCA	AGTGCAAAGA	TGATGAATTG	AACTAGAACT	GCTCTCACGT	CCCCTGCTGT	4440
TGCTAACCAT	GCATTTAAGA	ATACTGGTGT	AGTCCAAGGA	ACTTGTATAA	ATGCAGGACT	4500
CATGAATTCT	GTAACTGTTG	CTAAGTAGCT	GATTAAAATA	CCAAGGACTG	GAACTGTGAT	4560

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Aaatggaata	GCTAATGAAA	TGTTATAAAC	GATTGGGTAA	CCGAATAATA	CTGGTTCATT	4620
GATATTGAAG	ATACCAGGTC	CAAAAGATAA	TTTAGCCACG	TTTTTAGAGA	CAGCATTGCG	4680
ACTCACTAAG	AATGTTGCTA	ТТААТАААСА	TAATGTAGAT	CCACTACCAC	CCATTAAAGC	4740
GAATGTTTGT	ATTTGTGATA	GGTTGATGAT	GTGTGGAATG	GCTTGTCCAT	TATTTGCTGC	4800
AGTGATGTTT	TCAGTAATGT	TAATTAATAG	TAATGGTTCT	AGGATGGCAC	TGTAAATAAC	4860
TGCTTGGTGA	ATACCAAATA	GCCATAACAT	ATTTCCTAAA	GAGTAAATAA	TAATGACCCC	4920
GATTAAGCTT	GTACCAATAT	GACGAATTGG	TTCTTGAATA	AAGATTGTAA	TGATTGAGAT	4980
TAAGTTCATT	CCAGTTATAT	TGAATAATAA	TGCTGAAACA	ACCCCAAATA	AGGAGATGAC	5040
GGTCATGACT	GGAAGTAATA	CGCTAAATGA	TCTACTAACA	GCTGGTGGAA	TATTTCACC	5100
AAGGTTCATT	TGTAAAGCTT	TAACGTTTGA	TAATTCAATG	AATAATTCTG	TTGCAATAAT	5160
CGtACGATAA	CCCCGGCGAA	CATTGCGCCT	GTACCTGTGT	TGTTGAATGA	AAGAACACCT	5220
Gaaatgttta	CCGCATCTTT	TGCTCCGTCA	GGAACTACAG	AAACTGTATT	TGGCATCATC	5280
ACAATTAAAG	AAACTAATGA	TAGCATTGAT	GCTGCTAACG	GGTTTTCGAA	ATCTCTGTTT	5340
TTAGCTAAGA	AATAACCAAC	CATTACAGCA	ATAATCATAC	CTGAAATACT	TAAAGTACCG	5400
TTTGCAATTG	TTATTCCCCA	ATATTGGAAT	CTTGTTAATG	TATCCCCTTG	GAAAATCCAC	5460
TTAAATACCG	TGTTGTTCAA	AAGAACGATT	AAACCTGCCA	AATATATAA	TGGCATTACT	5520
GTTACGAATG	CATCTCTTAG	GGTTTTTAAA	TGAATTTGGT	TCCCTAGTTT	ACCAGCAAAG	5580
GATGGCAAAA	AAATTTTTTT	GGGGGGGGG	GTTATTAAAC	CCCCCTTTTT	ААААААА	5638

(2) INFORMATION FOR SEQ ID NO: 218:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 4745 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 218:

CCGGAAGCTG	TTGCCCTTGG	AACTCCAAAT	GAAGAAACAG	CCTTTGTCTT	GAACTATTTT	60
GGTGTGGAAG	CACCACGTGT	TATCACTTCT	GCCAAAGCAG	AGGGGCAGA	GCAAGTTATC	120
TTGACTGACC	ACAATGAATT	CCAACAATCT	GTATCAGATA	TCGCTGAAGT	AGAAGTTTAC	180
GGTGTTGTAG	ACCACCACCG	TGTGGCTAAC	TTTGAAACTG	CAAGCCCACT	TTACATGCGT	240
TTGGAGCCAG	TTGGATCAGC	GTCTTCAATC	GTTTACCGTA	TGTTCAAAGA	ACATGGTGTA	300

			1226			•
GCTGTGCCTA	AAGAGATTGC	AGGTTTGATG	CTTTCAGGTT	TGATTTCAGA	TACCCTTCTT	360
TTGAAATCAC	CAACAACACA	CCCAACAGAT	AAAATCATTG	CTCCTGAATT	GGCTGAATTG	420
GCTGGTGTGA	ACTTGGAAGA	ATATGGTTTG	GCAATGTTGA	AAGCTGGTAC	CAACTTGGCT	480
AGCAAATCTG	CTGAAGAATT	GATTGATATC	GATGCTAAGA	CTTTTGAACT	CAACGGAAAT	540
AATGTCCGTG	TTGCCCAAGT	GAACACAGTT	GACATCGCTG	AAGTTTTGGA	ACGCCAAGCA	600
GAAATTGAAG	CTGCAATGCA	AGCTGCCAAC	GAATCAAACG	GCTACTCTGA	CTTTGTCTTG	660
ATGATTACAG	ATATCGTCAA	CTCAAACTCA	GAAATCTTGG	CTCTTGGTGC	CAATATGGAC	720
AAGGTCGAAG	CGGCTTTCAA	CTTCAAACTT	GAAAACAATC	ATGCCTTCCT	TGCTGGTGCC	780
GTTTCACGTA	AGAAACAAGT	GGTACCTCAA	TTGACTGAAA	GCTTTAATGC	GTAAGATTTT	840
GGGTGTCAGC	TCAAAATCGG	AAAGTCTAGT	TTGCCTTATA	TCGCAAGGAG	TTTCGGCTCC	900
TTTTTTCTAG	GAGTGAAGTA	TGTTAGAAAA	TGGCGATTTG	ATTTTTGTGA	GAGATGGGTC	960
AGACATGGGA	CAGGCCATCC	AGACTTCCAC	AGGTAACTAT	AGCCATGTTG	CCATTTATTT	1020
GGATGGGATG	ATTTATCATG	CTAGTGGACA	GGCTGGTGTT	GTCTGTCAAG	AACCGGCAGA	1080
CTTCTTTGAG	TCCAATCATT	TATACGACCT	CTATGTTTAC	CCAGAAATGG	ATATCCAGTC	1140
GGTGAAGGAA	AGAGCTTGCA	AACATCTTGG	AGCACCCTAC	AATGCTTCTT	TCTATCCAGA	1200
TGCAGCTGGT	TTTTACTGCT	CCCAGTATAT	AGCAGAAATC	CTACCTATTT	TTGAAACTAT	1260
TCCTATGAAA	TTTGGAGwTG	GGGAGCAGGA	GATTAGTGAT	TTTTGGAGGG	AGTATTACAT	1320
AGAACTAGGT	CTGCCTGTTC	CTCTGAACCA	AGCTGGTACC	AATCCTAGTC	AGTTGGCAGC	1380
ATCGCCTCTG	TTACAATGTA	AAGAAAGGAA	TCTTCATGAT	TCAGATTTTT	AATCCATCTC	. 1440
GTTTGACGAG	ACAGCCATTT	TTGGAGAATT	GATCCGCTAT	CTGGATCAGT	ATGAGGATGT	1500
GATTCTACGG	GAAATTAAGG	CTCAATTTCC	AGATGTTGCA	GTTGATAAAC	TCATGGAAGA	1560
GTATATAAAG	GCAGGCTTGA	TŢCTACGTGA	AAATAAGCGC	TATTACCTCA	ATTTTCCTAC	1620
GCTTGAATCA	CTTGATAGTC	TTGAACTGGA	TCAAGAGATT	TTTGTCAGAG	AAGCTAGTCC	1680
GGTCTATCAA	GCCTTGTTGG	AGCAGAGTTT	TGAGACGGAA	TTGCGCAATC	AAATCAATGC	1740
AGCTATTTA	GTTGAAAAGA	CGGACTTTGC	GCGCATTAAA	ATGACCCTGT	CCAATTATTT	1800
TTACAAGGTC	AAACAGCAGT	ATCCTTTGAC	AGAAAAACAG	CAGGAGCTCT	ATGACATTTT	1860
AGGAGATGTT	AATCCTGAGT	ATGCCCTCAA	GTATATGACG	GCTTTTTT GT	TGAAATTTCT	1920
CAAAAAAGAC	CAGCTTATGC	AGAAATGCCG	TGATATCTTT	GTGGACAGTT	AGGTTGTCTT	1980
AGGCTATATT	GTGCAAAATG	AAGATGGAAA	GTATGAGTTG	GCTATCGATT	TTGATAAGGA	2040
GAGGTTAACT	TTCTACTTAG	CGTGATTTCT	TGTTTCTGAG	TACATTGTTT	GACTTTCCTT	2100

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AGTATTCGGT	ATAAACTATA	TGTAACCGGT	AACACATATC	GGAATAAACT	AAAGGAGACA	2160
ATCATATGTC	ACTTGAAAAC	AAATTGGAAC	AAGCAACAGG	CGCTGTCAAA	GAAGGTTTTG	2220
GTAAAGTTAC	TGGAGACAGC	AAGACAGAAC	TTGAAGGAGC	TGTTGAAAAA	ACAGTTGCTA	2280
AGGCAAAAGA	CGTTGTAGAA	GACGCAAAAG	GTGCTGTAGA	AGGTGCCGTT	GAAGGTTTGA	2340
AAAACGTTTT	TACTAAAGAA	TAGGAAAAA	TCAAGGGTTT	CATTTTCCCT	TGATTTTTTC	2400
TATTCTTATA	AATAATTTC	TGCGACGGCT	GTATCTCCTG	GGTAGGATTC	TTTCTTGCCC	2460
TGGATGATTT	GGTAACAATC	GGCTCCCTTA	CCCGCAATAA	TAACTGCATC	TAATTCGTGA	2520
TTTGTGATAG	CCATTGCCGC	CTTGATGGCT	TCTTGGCGAT	CCGCAATCTT	TTCAACAGGA	2580
TGATTGATGT	AGCTACTAAT	TTCATCTGCA	ATGGCCATTG	GGTCTTCATA	GTTAGGGTCA	2640
TCAGCAGTCA	GAAAGACTTG	AATCTCAGGG	TGTTGATTGA	GGAGGAGGCC	AAAGTCCTTA	2700
CGACGACTTT	CTCCCTTGTT	TCCTGTTGAT	CCCAGAACCA	GAGCAATCTT	TCCGGTTTGA	2760
TGAGTTTCAA	CCACATTGAT	GAGTTTTTC	AGACTATCCC	CATTGTGGGC	ATAGTCGATG	2820
AAGACCTTGG	CTCCATTTTT	CTGAGTGAGG	ACTTCCATAC	GACCAGGAAC	GCGGGTTGCA	2880
GCGATGCCTT	TTTTGATGTC	CTCAAGACTT	GCTCCGAGAC	GGAGACAAGC	AAGTCCAGCA	2940
GCAACTGCAT	TTTCTTGGTT	GAAGTTGCCA	ATGAGTTGAA	TATCATAATC	TCCAGCGAGT	3000
TTACCCGTAG	CTGAAAAGCT	AAAGGCTTTG	GAATTCTCGA	TTTGGTTATC	AAATTGGCTA	3060
CCATAGAAAT	CATGGTCTTG	ATCTTCAACC	TGTTCTTTCA	AGACTGAGAA	GTGGTCCATG	3120
TCACTGTTAA	TGATGACTGC	TCGGCTCTTT	TCCATCAAGA	GACGCTTGTG	GTAGAAATAG	3180
TCTTCAAAGC	TAGGGTGTTC	AATCGGGCCG	ATATGGTCTG	GGCTGATATT	TAGGAAAACT	3240
CCCACATCAA	AGGTTAGACC	ATAGACACGT	TTGACCAGAT	AGGCTTGACT	GGAGACTTCC	3300
ATGATGAGGT	GGGTACGGTC	ATTTTGCACA	GCCTGATTCA	TCATGTCAAA	GAGGTCAATA	3360
CTCTCAGGGG	TTGTCAACGC	TGACTTAAAG	AAAGTCTCGC	CATCAAGAGT	TGTGTTCATG	3420
GTCGACAACA	TAGCAGGTCT	ATGCCCTTGA	GATAAGATGT	TATAGGCGAA	ATAGGCTGCT	3480
GTTGTCTTAC	CCTTAGTACC	AGTAAAGGCA	AGGAGTTTGA	GTTTTTCCTG	TGGATTACCA	3540
TAGAACTCCA	TGGCAATCAA	ACTCATGGCT	TTCTTTATAT	CGTTCACAAT	GATGACAGGG	3600
ATACCGACTT	CGTAGTCCTT	TTCAGCTACA	TACCAAGCTA	ATCCTTGTGT	TATAGCAGAA	3660
AGAAGGTATT	CTTTTTTAAA	GGCAGCGCCT	TTTGCGAAAA	AAAGAGTGTC	TTCTGTTACT	3720
TTTCGGCTGT	CGTAGCTGAT	GCTATCAAAA	ATAACTTTGC	TGTAGTTGTA	GTGGTAATGA	3780
CCTTGGTCAA	TAATTTCGCG	AAAAAGGCCA	TCTTTCTTTA	АААТАТСТАА	TACGGTTTCA	3840

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			1228			
ATCTTAATCA	TACTTTCTAT	TGTAAACCGA	AAGTCGTAAA	TTTACAAGTA	ACAAGGAAAA	3900
GTTTATAATG	GAAGATAAGG	AGTTTTTCCT	AGTTATCAAA	ATTGAATGAG	GAATCTATGT	3960
CGCACGAAAA	CAATCACCAG	CAGGCCCAGA	TGTTACGGGG	GACTGCTTGG	CTAACGGCTA	4020
GTAACTTTAT	CAGTCGCCTA	CTCGGGGCTG	TTTACATTAT	CCCTTGGTAC	ATCTGGATGG	4080
GGGCTTATGC	AGCTAAGGCA	AATGGTCTCT	TTACCATGGG	TTACAATATC	TATGCTTGGT	4140
TCTTGTTGGT	TTCAACAGCG	GGGATTCCAG	TTGCGGTGGC	CAAGCAAGTT	GCCAAGT ATA	4200
ATACCATGCG	AGAAGAAGAG	CATAGCTTTG	CCCTGATTCG	GAGCTTCTTA	GGCTTTATGA	4260
CAGGACTAGG	CCTGGTTTTT	GCTTTAGTCT	TGTATGTCTT	TGCTCCTTGG	CTAGCAGACT	4320
TGTCTGGCGT	GGGCAAAGAC	TTGATCCCAA	TCATGCAAAG	CTTGGCTTGG	GGAGTCTTGA	4380
TTTTCCCGTC	TATGAGTGTT	ATCCGAGGAT	TŢTTCCAAGG	GATGAATAAC	CTCAAACCCT	4440
ATGCCATGAG	CCAAATTGCT	GAGCAGGTCA	TTCGTGTTAT	CTGGATGCTC	CTAGCAACCT	4500
ттатсаттат	GAAGCTCGGT	TCAGGAGATT	ATCTAGCAGC	CGTTACCCAA	TCAACCTTTG	4560
CTGCCTTTGT	CGGTATGGTA	GCCAGTTTTG	CAGTCTTGAT	TTATTTCCTT	GCCCAAGAAG	4620
GTTCACTCAA	AAGAATCTTT	GAAACAGGAG	ATAAGATTAA	CAGTAAGCGT	CTCTTGGTTG	4680
АТАССАТТАА	GGAAGCCATT	CCTTTTATCC	TGACAGGGTC	TGCCATCCAG	CTCTTCCAGA	4740
TTTTG						4745

(2) INFORMATION FOR SEQ ID NO: 219:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1900 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 219:

CCTGATTGAC	CTTATAATAA	GGAACAAAAC	ACAATGCACT	ACCTTTTCAA	CAAAAGAGTT	60
GCTGCTTGAT	TAAAACCATC	ACACCAGTTA	TACCATTTTG	CTTCATACCC	ATCTTGAGCT	120
AGGATACGAT	CTTCTAAATC	AAAAACAGAG	TAAATCTTTC	TTTCCTCGCA	AGCTTGCGCA	180
TAGAGATGAT	ATAGTTCATC	ACCACCATCT	CTATCCCACT	CAGCAGAAAT	CGTATCCCGA	240
CCTGCCAATA	AAGCCTGATA	AGCCCTGTGA	TGCCCATCTG	TAATCAGCAA	ACAATCTCCA	300
AAGGCAAGAA	TACTGATTGG	ATCGACTTGG	ATTGTTTCTG	CCGACTGGTA	AAGCATCTGA	360
ATATCTTGCA	ACTTCTTTTC	TGATAAATAT	AGTTGAGTCA	GATGAAGATC	TGCTATATTG	420
ACTTTCATTT	CTTTCTCCTC	AAGGGAATTC	GATACTCACT	TCTGTTTGCC	TTTAAATCGC	480

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CATT	rggaagc	GGAgCTTGTC	ATAAAAGGGA	AACTCGATAA	ACAGGACTCC	CAAGCCCACA	540
CAG	AGACTGG	CAAGGACGTC	TGATGGGTAA	TGAACTCCCA	GATAGACTCT	TGATACCAGC	600
ACAC	CTGACTA	GGTAGAGGCC	AAGGACGATT	TGTACGATTT	TTCTCCAGAC	CTGATCTTTA	660
ATC	CGCTGAC	TAAGAATAAC	AATCAAAGTC	CCTACCATCA	GCGTTACAGC	TAGAGAATGC	720
CCAC	CTTGGGA	AGGAAAATCC	CTTCTCCTCC	ACCAGATGTA	AAATAGCTGG	TCGTGGGCGC	. 780
TGGT	PAGATAT	TTTTAAAGGT	CACGATTAAA	AGACCTGCCA	AAGCCAGATT	TCCCAGCATG	840
AAG/	AAACTTT	CTATCTTCCA	TCGCTTACGA	TAAAAGACAA	AAGCTGTAAT	GACAACCCAA	. 900
GTG!	АТААТСА	CTGGGATATC	AATCAGACGT	GTGAGGGCTC	GAAAAAGAAT	AGTCAAATAA	960
TCT	GTAAGT	CTCCTCGAAT	GGCAGTCTGA	ATCGATTGGT	CAAAATTGAC	CAACATTTCA	1020
GGG1	ТТААААТТ	TGACCATGTA	GCCAAGAATA	ACGAAAAGTA	AAAGGGCAAA	ACTGCCCTTC	1080
ATT!	AAAAATG	TTTGTTTATC	TCTCATAATG	TTTTAAGGTT	GGTTTCAAGA	GAACATACAA	1140
CAA	CCAGAAT	GAAACGGAAA	AGATAACACC	TTCAATCAAG	TTAAAAGGTA	ATACCATGGT	1200
CATT	PAGGTAG	TTGGAAAGTC	CCAAAATTTT	TCCAATATCA	AAGTTAGCAA	ACTTAGCGTA	1260
CAA	AGGAACA	GCATAAACAT	AGTTGAGAAC	CAACATGGCC	AAGGTTAAAC	CAATAGTTCC	1320
AGC?	PAGAGAG	CCTAGTAGGA	AACGAAGGGT	TGTCCGTTCC	TTTTTCCAAA	TCAAAGCAAA	1380
TAC	GATGACA	AAAACTCCCA	AAGCTACGAT	ATTCATCGGC	AAACCAATGT	AAGTATTCAC	1440
rcc1	TGGCTG	TTAAGAAGCA	ATTTCAAGAG	TGAGCGAAGC	AAGAGCACTC	CTAGAGmCsC	1500
AGGO	CAAATCC	ATGACCACCA	GACCCACAAG	GACTGGCAAG	ATACTAAATT	CGATCTTGAG	1560
GAAA	AGATGCC	GCTGGTAAAA	GCGGAAAGTC	AAAGTACATC	AGCACAAATG	AGATGGCTGA	1620
TAGA	AATTGCA	ATGGTCGAAA	GTCGACGTGT	GTTTGTCATA	ACAGGTTCCT	CCAATTTTCT	1680
LATA	VAATCAG	AAGAAGTTGG	AAAGGATTCC	TCTATCTATT	CTCACTTTTT	ATATCCCAAA	1740
AGT7	CCCTCT	TACTCTATTA	AAGAAAAACA	AAGCAAGTGG	TTACAATCCG	GCTATAAATC	1800
TATO	CAAAACA	GACAAGGCTA	TTCTTTCGTC	TTCTCCCATC	CAGACTATAC	TGTCGGTTGT	1860
GGA	ATCTCAC	CACATCACGT	TGCGCTCACG	GACTTCTTTA	•		1900

(2) INFORMATION FOR SEQ ID NO: 220:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 4692 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 220:

GGTTTTCCAG CAGGAGCTTC TCCTTTATCA GAATGACCAT CCCATCTGCT CACGATAGAT 60 GAATAATGAT ATTTTTTACC ATGATAGTAA TTTGAAAAAG CCTAACCACC TCCTGAACCT 120 TCTCCATATG TCCATACTCC TCCATCTGGA TATTATACAG CAGCTGATGC AGCTCCCAAT 180 AATGTAAAAC TTGAAATAAG AGCTAGAGCA AGTAATCTAT GTTTTTTCGT TTTCATTTTA 240 TTTTTCTTT CAAAAAAAGC ACACCTTGAG CAACAATGCA ACAAAATAAA TCCTCCTCTC 300 TCTTTATTG AAACCGCTTT CTTATGTGAT AAGAATAACT TTTTTATTAT TTGTTGTCAA 360 GGAAAAAATC GAATTTTTTA GATATTTTAC TATATTACCT CTGTGAATAA TATTATATAG 420 TAGTTTTATT TCAAAATAAT ATGCAACCAG TACTAACCAA ATATAAAATA GATGCCATTA 480 ACGAATTTTA TTCAAGTTTT TCCCATTCAT ACTATACAAG TAAAAGAGAT GGTGTTAACT 540 AAAAAGCAAT TCAAACTATT GTAAAATTCC TAGCAAAAAG AGAGCCGAAA CTCTCTTTTT 600 TATCTTCTTT TACTTTTTTT GACTGGCATG AGTGTGATGT CTCTAACACT AAAGTAAGCT 660 AGGATCAACA TGGCTATTGC TAGGAATATT TCTGTTGGTA ATTGAAAAAT TTTCAGAAAA 720 GATAGAACCA ATAAAATCAA GAGTGCCACT AAAATACATA CCATAGCGAC GATATTGACA 780 GTCCCTTTAA TGCTTTCTGG TGTCGCAAAT ACATAGAGTA GGAGCAGTAA AATTCCTAGG 840 ACTAAATAGA CCATCTTTCT CTCTTCTAG CTCTTATTCA GCTGATTTTT TCTTCTTGTT 900 AGCTTTCTCA CGCTCTGCTT TGTTAAGGAT TTGTTTACGC AAACGGATAG ACTCAGGCGT 960 TACTTCCATG TACTCATCGT CGTTCAAGAA CTCAAGAGAC TCTTCAAGTG TCAAGATACG 1020 AGGCGTCTTG ATAACAGCTG TTTGGTCCTT AGTAGCTGAA CGAACGTTGG TCATTTGTTT 1080 TGCCTTCGTG ATGTTAACTG TCAAGTCATT TTCACGAGAG TTTTCACCGA TGATCATTCC 1140 TTCATAAACC TCAGTACCTG GGTTGACAAA GATCGTACCA CGTTCTTCGA TAGACATGAT 1200 TGAGTAAGTT GTAGCCTTAC CAGCATCGAT AGAAACAAGG GCACCACGGT GACGTCCACC 1260 AATTTCCCCT GGAATCAATG GCAAGTATTG GTCGAAGGTA TGGTTCATGA TACCGTAACC 1320 ACGAGTCATT GATAAGAACT CAGTTGAGTA TCCAATCAAA CCACGCGCTG GAACAAGGAA 1380 GACCAAACGA GTTTGACCAT TACCAGTTGA AATCATATCC AACATTTCAC CTTTACGTTC 1440 AGAAAGGCTT TGGATAACAG ACCCTTGGTA TTCTTCTGGA GTGTCGATTT GTACACGTTC 1500 AAATGGTTCA CATTTAATAC CGTCGATTTC TTTTACGATA ACTTCTGGAC GAGATACTTG 1560 AAGTTCATAG CCCTCACGAC GCATTGTTTC GATAAGGATT GACAAGTGCA ATTCTCCACG 1620 TCCTGAAACA GTCCATTTAT CTGGTGAATC AGTTGGGTCA ACACGAAGGG AAACGTCTGT 1680 TTGCAATTCT GCCTGCAAGC GTTCTTCCAC CTTACGAGAA GTTACCCATT TACCTTCTTT 1740

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ACCAGCAAAT	GGTGAGTTGT	TGACCAAGAA	AGTCATTTGA	AGAGTTGGCT	CATCGATGTG	1800
TAGGATTGGA	AGAGCTTCTA	CTGCATCTGT	CGGAGTGATG	GTTTCACCGA	CAAAGATGTC	1860
TTCCATACCT	GAAACGGCAA	TCAAGTCACC	CGCTTTGGCT	TCTTGGATTT	CACGACGTTC	1920
CAAACCAAAG	AAACCGAAGA	GTTTTGTAAC	ACGGAAGTTT	TTAGTTGTAC	CGTCAAGTTT	1980
AGAAAGGGTA	ACTTGGTCCC	CAACCTTAAC	TGTACCACGG	AAGACACGAC	CGATACCGAT	2040
ACGTCCAACG	AAGTCATTGT	AGTCCAAAAG	TGACACTTGG	AACTGCAAAG	GCTCATCTGA	2100
GTTATCTACT	GGAGCTGGGA	TATGGTCGAT	AATCGTGTCA	AAGATTGGTG	CCATAGTCGC	2160
TTCTTGGTCA	GCTGGATCAT	CTGACAATGA	AGAAGTTCCG	TTGATCGCTG	AAGCATAAAC	2220
CACTGGGAAA	TCAAGCTGGT	CGTCATCTGC	ACCAAGCTCG	ATGAAAAGTT	CCAAGACTTC	2280
ATCCACTACT	TCTGCTGGAC	GAGCTGATGG	CTTATCGATT	TTGTTAACAA	CCACGATTGG	2340
GACAAGGTCT	TGTTCCAAGG	CTTTTTTCAA	TACGAAACGA	GTTTGTGGCA	TGGTTCCTTC	2400
ATAGGCATCT	ACGACCAAGA	CAACACCGTC	AACCATTTTC	ATGATACGCT	CAACTTCTCC	2460
ACCAAAGTCC	GCGTGTCCTG	GTGTGTCCAT	AATGTTGATA	CGAGTTCCGT	TGTAAGCAAC	2520
GGCAGTATTT	TTAGCAAGGA	TGGTAATTCC	ACGCTCTTTT	TCGATATCGT	TTGAGTCCAT	2580
AGCACGCTCT	GCCAATTCAG	TCCGTGCATC	AAGCGTTTCT	GATTGTTTCA	ATAATTCGTC	2640
AACCAGGGTT	GTTTTACCGT	GGTCAACGTG	GGCGATAATC	GCAA:PGTTAC	GGATATCTTC	2700
TCTTAATTTT	GTCATGATTT	CCTCTATAAT	ATTCAAAATT	ТАТТТТСТАА	CTGAACGATT	2760
ATACCATAAT	TTCAAATAAA	TAACATAACT	CAAGCAAGTG	TAAATGTTTT	CACTCTGCTT	2820
TTCTTTTCAC	GTCAAGCCTT	TTCAAAGCGA	GCGACTTATG	ATAAGATAGG	CACAGTATGC	2880
GTTTAGATAA	TTTATTAGCT	CAAGAAAAA	TCAGCCGAAA	GGCCATGAAG	CAAGCACTCC	2940
TCAGAGGGGA	AATTCTAGTC	GATGGTTGCC	CAGCCCGCTC	CCTAGCTCAA	AATATCGATA	3000
CAGGACTACA	AGAACTCCTT	TTTCAGGATC	GAATCATTCA	AGGCTATGAA	CACACCTATC	3060
TTATGCTTCA	TAAACCTGCT	GGTGCCGTTA	CAGCCAACAA	AGACAAGGAA	CTTCCGACCG	3120
TCATGGACCT	GCTTCCATCT	AACATCCAGT	CTGACAAGCT	CTATGCCGTT	GGCCGACTGG	3180
ACCGAGATAC	AACGGGACTC	CTCCTCTTGA	CCGATAACGG	TCCCTTGGGC	TTTCAGCTCC	3240
TCCATCCCCA	ATATCATGTC	GATAAGACTT	ACCAAGTTGA	GGTTAATGGA	CTTCTAACAC	3300
CTGACCATAT	CCAAACCTTT	CAAAAAGGAA	TTGTCTTTTT	AGATGACACT	GTCTGTAAAC	3360
CCGCAAAACT	AGAGATTCTA	TCTGCAAGTC	sCTCCCTCAG	TCAAGCCTCT	ATCACCATTT	3420
CAGAAGGAAA	ATTTCATCAA	ATCAAGAAAA	TGTTCCTCTC	GGTTGGTGTT	AAGGTGACTA	3480

12	32
GCCTCAAAAG AATCCAATTT GGGGACTTCA CATTC	
ACCGCCCTTT GAACCAAAAA GAGTTACAAA TCATT	AAAAA CTATTTAGAG ATGAGTCGAT 360
AAAACAAAAA AAGCTTTAAA ACTAAAGCTT TTTTC	TTTTA TTTACCGAAA AATTAAGGCG 366
ATTGCTACAA TCCAGTTAAC TACAGAAATC ACAAT	TCCTA AGATATTAAG AATCTTTTCT 372
ATTTTATAGT CTAATTGTGA CTCTTTTTGG TATGA	AATAG CCAAGACCAA TCCTATGATA 378
CCCAAAATCA GGCCTACAAT.TGGAAATAAC AAACC	AAGAA TAATCGACAA GATACCCACA 384
AAAAGTGGAT TTTTCTTCTT TTCTTTTATG TTCTA	AGAAC TCCTTAAATT TTATACAAAT 390
TAATTATACT ATAAAACAAT AGCTTCATCC TATCA	TTCGA CTAATTTGGA AATAAGGTTA 396
GCTAGTCTTC ACTITCCCTT TCCAAGAATC CAAGC	CATAA GAAAGGATAT AAATCTCAGA 402
AAAACCTTGT TTTTTCAAGT AAAGAGCTGC ATTTC	TAACT CGTTGCGCAC GTTGGTTTTC 408
GTAGAGAAGG ACAGGTTTAT CTTTACGAAG GGCTC	CAAGA CTAGTTTTCA ACTGACTTGA 414
AGGAATATTG CGTGCACCAA GGATATGTTT TCTG1	GGAAT TCTGCTGGGT CGCGCAAATC 420
AATCAATTGA CCCGTACGAA TCAAGGCTTC AAACT	CCTCA TTGTCCACAA TTTTAGCCGC 426
ACGGCGAATA CGAAGATAGT TAAAGCCCAT CCACC	CCAAC ATTGCTAGTA TAAGTGCCCA 432
CAAAATCCAA GTAACCATTA GTTCTTTTCT CCATT	TTTCT CAATATAATC CAATTCTACC 438
TTGTGCTCTC TGCGAAGAAC TGCTTCTGCC TCTAC	ATAGT CTAATTTATC CATCAACCCT 444
GCATCGTAAA TCCGAGATAG TTCCAACTTC ATCAC	TTCAA TATCATATAA GCGTTTTCCC 450
ATGTAAACAA TAATACCAAA TCGTTTGAGG AATTC	CTGCA CATCATAGAA TGTTTTCATA 456
AGACTCATTC TAGCAAAATT TTGTGTTTTT TTCAA	GAAGA GACTCACACA ATGCTCCTTA 462
TTTTCCTATC TTCTTTAGCG ATTCTAAGGC AAGTA	TGGTA CAATAAAAAC ATGGGGATTC 468
AACAATTACA TT	469
(2) INFORMATION FOR SEQ ID NO: 221:	•
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 706 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
•	
(xi) SEQUENCE DESCRIPTION: SEQ II	
GCTAAAAAGC TGATAATCTT CGACTCCTGT ATATC	ATGTG TCTTTTCATG TAAGACACGC 6
GCCGCCAGAA TCATGGCAAG AGCTGCAAGA CTGGC	AAGTA AGAAGCCGAT AAGATAGGCA 12
AAAAGATAAG TGAATTTGAC AAAAGAAAGTC AAAAG	AACTA GGAAACCAAA GCCTCCTCCA 18

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AAAACTACCA	AAGTCTTTCG	TAAATCCCAG	ATTTTATCCA	ACTGCTTGAC	GAGGGAAGTC	240
GTCTGACGAA	CGCCTACAAT	AGTTGCTAAC	ATACTTCCTA	AAAAGAATGG	ATAGACATGA	300
GTTAAACTGG	AGAAATAAAC	AGAGGAATAA	GAGGTCACTA	GAAAACTACC	AATAAACATG	360
GAGAAGAAAC	TGATCAAGAA	GGCAACAGCA	GATAAGAGAA	AGACCATCCC	CTTCAACTGA	420
CCATTTGATT	TAGCTTGTTT	GGATAAGAAC	CAAACTGCCA	ATCCCCAAAG	AATATAGTAG	480
TGAACCTCAA	CTGCCAAACT	CCAATTATGA	ACAAACAAAT	GAGGAATGAA	CTGAGATTCA	540
TAACTCCCAC	CTGTTAGGAG	TTCATAGAAG	TTGGTCATAA	AGCCTAAGAC	GCCCGCAATC	600
TGGCCACCAA	TTCCAGCAAC	ATAGTCTTGG	CGAACCAAGA	AAGTAAAAGG	CATGGTCACC	660
AAGACCATCA	AAACCACAGG	TGGCACAATC	TCGATAAAAG	CGTCTT		706

(2) INFORMATION FOR SEQ ID NO: 222:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 3236 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 222:

CA	GCTGATGG	GCAATATCAG	TCATAGAAAT	TTTTTCAATT	AACTTTTGAG	CAATTTTTTG	60
GT	TGATGATA	CGAGGGATTT	GGTGATTTTT	CTTTACCAGG	GGAGTCTCAG	CAACCATCAT	120
тт	TTGAACAG	TGATAGCACT	TGAAACGGCG	TTTTCTAAGG	AGAATTCTAG	AAGGCATACC	180
AG	TTGTTTCG	AGGTAAGGGA	TCTTAGACGG	TTTTTGAAAG	TCATATTTCT	TCATTAGACT	240
TC	CACAATCA	GGGCAAGATG	GAGCCTCATA	ATCCAGCTTA	GCGATAATTT	CTTTGTGGGT	300
ΑT	CCATATTG	ATGATATCTA	GAATCTTGAT	GTTTGGGTCT	TTAATATCGA	GCAGTTTTGT	360
ĠΆ	TAAAATGT	AATTGTTCCA	TATGATTCTT	TCTAATGAGT	TGTTTTGTCG	CTTTTCATTA	420
TA	GGTCATAT	GGGACTTTTT	TTCTACACAA	AAATAAGCTC	CATAATATCC	ATAGGGGATT	480
TA	CCCACTAC	AAATATTATA	GAGCCCGAAA	ATATGGGAAA	ACTGATCCTT	GTTTCTGCTT	540
TT	GTCTATAG	AAGAATAATA	AAGATTATCT	TCTTCAAATT	CTCCGATATT	CTCTAAAGTT	600
тт	GTGCAAGT	TGCACAGAAC	TTGTTTATTT	TTTTGGTCAT	CTTGCCATAG	AAATATAAAG	660
CG	TTTTCATA	TATAATATAA	TTATCAAAAG	ACAAAAGGAG	TTCACCTCAT	GGTAGAATTG	720
AA	TCTTAAAA	ATATTTACAA	AAAATATCCA	AACAGCGAAC	ACTATTCAGT	TGAAGATTTC	780
AA	CTTGAACA	TCAAAGATAA	AGAATTTATC	GTTTTCGTAG	GACCTTCAGG	ATGTGGTAAA	840

1234 TCAACTACAC TCCGTATGAT TGCTGGTCTT GAAGACATTA CAGAAGGTAC TGCATCTATC 900 GATGGCGTAG TTGTCAACGA CGTAGCTCCA AAAGACCGTG ATATCGCCAT GGTATTCCAA 960 AACTACGCTC TTTACCCACA CATGACTGTT TATGACAACA TGGCTTTCGG TTTGAAATTG 1020 CGTAAATACA GCAAAGAAGA CATTAACAAA CGTGTTCAAG AAGCAGCTGA AATACTTGGA 1080 TTGAAAGAAT TCTTGGAACG TAAACCAGCT GACCTTTCAG GTGGTCAACG TCAACGTGTT 1140 GCCATGGGGC GTGCGATTGT CCGTGATGCG AAAGTATTCT TGATGGACGA ACCTTTGTCA 1200 AACTTGGATG CCAAACTTCG TGTATCAATG CGTGCTGAAA TCGCTAAAAT TCACCGTCGT 1260 ATCGGAGCTA CAACTATCTA TGTAACTCAC GACCAAACAG AAGCGATGAC ACTTGCAGAC 1320 CGTATCGTTA TTATGTCAGC TACTAAGAAC CCTGCTGGTA CAGGTACTAT CGGACGTGTA 1380 GAACAAATCG GTACTCCTCA AGAAGTTTAC AAAAATCCAG TTAACAAATT CGTTGCAGGA 1440 TTCATCGGAA GCCCAGCTAT GAACTTCATC ACCGTGAAAT TGGTTGGTAG CGAAATTGTT 1500 TCTGACGGTT TCCGTTTGAA AGTGCCAGAA GGAGCATTGA AAGTTCTTCG TGAAAAAGGC 1560 TACGAAGGAA AAGAATTGAT CTTTGGTATC CGTCCAGAAG ACGTGAATGC AGAACCTGCT 1620 TTCCTTGAAA CATTCCCAGA CTGTGTTGTA AAAGCGACTA TCTCTGTATC AGAACTGCTT 1680 GGTTCAGAAT CTCACCTTTA CTGTCAAGTT GGTAAAGACG AGTTTGTTGC AAAAGTTGAT 1740 GCTCGTGACT ACTTGCAAAC AGGTGCAACA GTTGAGCTTG GATTTGACTT GAACAAAGCA 1800 CACTTCTTCG ATGTAGAAAC TGAAAAAACA ATCTACTAAA ATAAATAAAA TTCAAAGCAC 1860 TACAAGAAAA GATATCTCTT TATCAATTGT AGTGGAGAGA TATCAGTTAA TCTAGGGAGA 1920 GAAACAAAAT GCTTCTCCC TTTTTGCTAG AGAAGTCATA TTATGCATCT ATATTGTGAT 1980 GCTCTTTAAT ACTCTTCGAA AATCTCTTCA AACCACGTCA ACGTCGCCTT GCCGTACGTA 2040 TGATTACTGA TTTCGTCAGT TTTATCTGCA ACCTCAAAGA TGTACTTTGA GCAGCTTACG 2100 GCTAGTTTCC TAGTTTGCTC TTTGATTTCC ATTGAGTATT ATTTGTGGGT ACCATCTACA 2160 AGTGAAGCTA TATGCGTAAA CTACGTGAGC AATTGAATTC GAACTAGAGA GGTAATAATA 2220 AATTTATGCT ATAGTTATGG TGACTTGTAT GCTTTTGATT CTAGTTTATC AAATAATAGA 2280 TTAGAATTGT CAGATAATAT CATTTTGTGT TATAATGAAG AAAAAACAGA GGTGTTCAAA 2340 TGTCAGAAGC AGGTCATAAG TTTTTAGCAA AATTGGGGAA AAAACGCTTA CGTCCAGGTG 2400 GAAAGCGTGC CACAGATTGG TTAATTGCAG AAGGAGGATT TTCAAAAGAA AAGAGAATAC 2460 TAGAGGTTGC GTGTAATAGG GGAACTACAG CAATTGAGTT GGCACAGCGT TTTGGTTGCA 2520 AGATAACTGC TGTTGATATG GATGCTCAAG CTTTAGAAGT GGCTAAAAAA TCTGCTGGAA 2580 CGGCAGGTGT TGCTCATTTA ATCAGTTTTG AAAGAGCAAA TGCAATGAAA CTTCCTTATC 2640

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AAGATGCTAG	TTTTGATATT	GTTATAAATG	AAGCTATGCT	GACTATGCAA	GCCGATCAAG	2700
CTAAGAAAAA	ATGTGTAATG	GAATATCTAA	GGGTATTAAA	ACCTGGAGGT	CTTCTCTTGA	2760
CACATGATGT	GCTTCTTAAG	GAAGCTAAAG	AGTCTATCAG	ACAGGAATTA	TCACAAGCAA	2820
TTCATGTAAA	TGTAGGTCCT	TTAACTCAAG	ATGGTTGGGA	ACAGGTGATG	ATAGAATCAG	2880
GTTATTGTGA	TGTGAAAGCA	TTGACTGGTG	AAATGACATT	AATGAAATTA	TCGGGTATGA	2940
TTTATGACGA	AGGTTTGCTA	GGAACTTTGA	AAATTTGTGT	AAATGCTTGT	AAAAAGGAGA '	3000
ATAGAAAGCA	GTTTTTAACT	ATGTATAAAA	TGTTTGCTAA	GAATAAACAG	AAATTGGGCT	3060
TTATTGCGAT	GGCTAGTTAT	AAATCGTCAA	AACGTTAGAT	AATTATTGAA	GTTAACTTTT	3120
CCTTTTTTCT	ттсттааааа	ATATGCTATA	ATAGAGAGTA	AAAAACTTTG	AAAGAAAGAA	3180
AAAGATGAAT	TTAAAAGATT	ACATTGCAAC	AATTGAAAAT	TATCCAAAGG	GTACCG	3236
(2) INFORMA	ATION FOR SE	Q ID NO: 22	23:			

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2885 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 223:

60	GAAAGCATGG	TATGGTCGTG	ACTTGGTTTA	AGTTTGCCAC	CAAATTGGTT	CCTGACTTTT
120	TGTTTAGGTT	TGTCTATTTT	CCATGAAAAG	ATTTCTCACC	TCAAAGGGCG	СТАТТАСТТС
180	CCGCTTATAT	TGAGTGAGTA	TTTAACTGAT	CATATTACTC	TTCATTGTCA	TGTAAGTTAA
240	GCTATAATTC	TTAGAATACG	TCAAGTCCTT	AGTGTTACCC	ACGCCTTAAA	TTGATGCCAA
300	AATGGTATTT	TGGTATTAAA	CTATCTAGGT	AAGCTCATCA	AAACTATCTT	CGCTCATTGT
360	AGGCTTAATA	AGTCACTCTT	TCCTGCTCCC	AAAGAGTAAA	TTAGCACGTC	TCACGATTGT
420	CATGAGTTCA	CAACAGACTT	ATTAAGTAAT	ATCATCAATA	TTGCTCCTAA	ACAGCATTTT
480	TTTAATTTGT	TCCACCCCTC	TTACCATAAT	TGTTGCACCT	ACTCTGTAAG	GTAGCTTCAA
540	TGTCTTATAC	GTTCTCCTTT	ACACTCTTAG	TACAAAAAGC	CGGTTAGGCT	TTGATCATTT
600	CCCTGTACCT	TTTTTCCAAT	GATAAAAGTG	AATAGCAACT	TACCTTTGGC	CCCTCATTTA
660	ACCTTTTGCA	TTTGTACCTG	TCAAGATATT	CCTCATGCCA	GCGTATTTCC	CCTGTGATAA
720	AGTTTTAGTT	AATCATCAAA	ACAGCATTAA	TTCTGATGTT	ATCGCTTTTC	AATTCTAAAA
780	TTGCATATAT	CATTATAAGT	CTCATCAACA	GCTCTTATTG	CTGCTACATA	ТТАААСТСАТ

			1236			
AGTTTAGCAT	TCAAATTATC	AGCAATCGCA	TCTTCTTCAT	CTTGCTTTTT	CTGTTCTTCT	840
TGGCATTGTT	CACAATAGGG	TGGGATACAG	CGAACTTCTT	TTATTGCCTC	TCCGTTCTCA	900
TTCCACCCCA	CTACTACATG	TCTTTCTCCT	TTGATTTCTG	TTAGCTGTAT	TTCATGCTTA	960
GGACACAATT	CGTCTAGTTT	AAATGTCTCA	ATATTTCCTA	AACTAGATTG	TAATGATTTC	1020
ATTTTCTGAC	CTCCTAAAAT	GGTTTTTCTT	GTGTTGGTAT	CCAATCTTCA	TAGCTGGTAG	1080
GCTCTAGTTG	ATTGGTTTGC	TGTTTTTAG	CCTCACGCGC	TGCCCTGCTA	TTTCTAACAA	1140
GTTCCACCGT	CAATAAATTG	TCCTGTTTCC	AACGGTTAAG	GATTACCTTG	ATGTATGCAA	1200
AGTTTGCTTT	ACCCTGACTG	ACAGCCTCTT	TTAACGCCTC	ATGGATAAGC	TCTGGGCTAA	1260
AATCTTC TÀG	CATATACTGC	AATTCTTGAA	TCTGTAACGG	TGACAATGCT	TTACCTGTCT	1320
CAGCTCGCTT	CATATTCAAC	AAGTCGTCTA	TTTCCACACT	GGTTACTTTT	TTATTTACAA	1380
AATCAGAAAT	CAGTTGAAAA	ATGTTTGGAC	TTTGTAGCTG	GATTTCAGCC	ATTACCTCAT	1440
CAAATTCTGC	TTGTGTCATG	TTGTCTAAAT	CTAGTGTCAT	TGCATTGCCT	CCTCAAACTT	1500
CTCTATAAGA	CAACTTTTAT	TTGCTTTCTG	AGTTCCATTT	TTAGAGTTAA	AAAGAATATC	1560
TTTTAAGGTT	ACAGTAGCCT	CTAAATACTC	CTTTTCAGCA	TGCTCTATAT	ACGCCTGTTG	1620
CTCTGCTTCG	TTCTCAAAAA	AGTGCTTAGC	TTGGCGTTTA	AAGAATGCTT	TTCGCATAGC	1680
GTCCATTTCA	AAAATACCAG	GGGCGAAAAA	CATTCCCGTA	GTGCTTTTAG	AGACCGCTTC	1740
GATTTTATGG	CTTTCATTCA	ATTCAGGAAG	TTCAATCCAA	AGTAAACGGG	ACAACTCATC	1800
TTTGATGGAT	TTTGTCTGAC	TTTCCAATAA	AGAAAGGATT	CTTAGGCCAT	TTTCTTCGCT	1860
AATTTCTCGC	ATTTCTGCGC	TAATTCTGTC	TATACGTCTA	GTTAAATTCT	CATATGTTGT	1920
TTCTGTCATG	TTTTTACCTC	TGTTTCTTTG	TTGGTGTGAT	TTTTTAGCTT	ATTTTTTAC	1980
ттстааасат	CATTGTCTTA	ATTTCCTGAT	AACTCATTTT	CAATTCAATC	ATAGCTATTG	2040
CCATATCCTC	AAATGCCTGG	TACTGCTCCA	ACTCCTCACT	AGTCAAGCTA	TCGATACCGT	2100
TATAGCCCCC	ACGCTCTTCT	CTTAACTGCT	TAGCGTTCAT	GTCTGTTACT	GCCTTTAGTA	2160
GCAAGTTGTT	CATGGTGCTA	TGCGCGTGCT	TTGGTGCATT	AGGCCATGTT	TCTATACTGT	2220
CATGCAAGGT	TTTTCTTTTC	GGTTTTTCTA	GCGCCCTCTG	CAGACGAATT	TCAGAAAGTT	2280
CCTCACGCAT	TTCAAAGAAT	GCTTTGACTA	GGTTTAGTTT	GAATTGCCGT	ACTGTTTCGG	2340
ТАТТСТТТАА	ATAAGTGATC	AGAAAAGTAG	CCTGTTGCTC	GTTCAGAATA	TAGGATTTTT	2400
TAGGTTGTCC	TCTAGTATCT	aatttatgga	TTTTAAATCC	AAGTATTCCC	AACTCTTCAA	2460
AGTCAGCCTT	ATTTTCTCTT	ATTAAGCGCG	TGATAGTGTG	GTGTTGTACT	TCAGCACATT	2520
CAGCGATGAT	CTCGCTTGTG	GTGTACGGCT	CTTTCTTACC	GTCCATGTAA	ACTAGTTCCA	2580

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TTACGGTTCT	ACCTCCTGTA	TAAATCTGGT	TAGCTTACTT	TTTAATTGCC	TCCTCTAGCC	2640
TCTTTTTTAG	CCTCTAAAAC	GGCTTTGGCT	AGTGGTTAAT	ATTATTTACC	ACTTGTCTCT	2700
ATAAACGTGT	TAGAGGCCTT	TATAACGACT	TGTATCGCTG	TATCGATATC	CTCCGTGGAA	2760
TAGTAGATTT	ATTTTCTAAT	ATCATTCAAG	ACTTGTTTAA	CCCATTTCTT	GAAAGAAATA	2820
AAATTACATC	TTCTTTATCC	TTGGCATCTG	CTTTGTCTGA	GACAAATTAG	AATGTCAATA	2880
CTTGG						2885

(2) INFORMATION FOR SEQ ID NO: 224:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3144 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 224:

TATCAATCCT TTCCCATTAT AGGAGCAACA GAGTGGGAGT AGTCATCTAA GGACTAATTT 60 ATGTATTTT ACGAGTCAGT ATCTTGGGAT ACTGGTTTTT ACTTTTCTAG ACTTTTTGAC 120 TACTTGTTAA AACTGGGATA ATTTTCGACT GTTTAACAGT TATTATGCAA AGTCTAAAAG 180 ATTAGAATTG TCAAAACAAT CCGTCTAGGC TTGATTTTAT CCTTTATTTA CTATAAAATG 240 AGAAGGAAAA ATGTCAAACT TTTATATTGC AAATAGGAGA AATCATGACA AAAACATTAA 300 AACGTCCTGA GGTTTTATCA CCTGCAGGGA CTTTAGAGAA GCTAAAGGTA GCTGTTCAGT 360 ATGGAGCAGA TGCTGTCTTT ATCGGTGGTC AGGCCTATGG TCTTCGTAGC CGTGCGGGAA 420 ACTITACTIT CGAACAGATG GAAGAAGGCG TGCAGTTTGC GGCCAAGTAT GGTGCCAAGG 480 TCTATGTAGC GGCTAATATG GTTATGCACG AAGGAAATGA AGCTGGTGCT GGTGAGTGGT 540 TCCGTAAACT GCGTGATATC GGGATTGCAG CAGTTATCGT ATCTGACCCA GCCTTGATTA 600 TGATTGCAGT GACTGAAGCA CCAGGCCTTG AAATCCACCT TTCTACCCAA GCCAGTGCCA 660 CTAACTATGA AACCCTTGAG TTCTGGAAAG AGCTAGGCTT GACTCGTGTC GTTTTAGCGC 720 GTGAGGTTTC AATGGAAGAA TTAGCTGAGA TCCGCAAACG TACAGATGTT GAAATTGAAG 780 CCTTTGTCCA TGGAGCTATG TGTATTTCAT ACTCTGGACG TTGTACTCTT TCAAACCACA 840 TGAGTATGCG TGATGCCAAC CGTGGTGGAT GTTCTCAGTC ATGCCGTTGG AAATACGACC 900 TTTACGATAT GCCATTTGGG AAAGAACGTA AGAGTTTGCA GGGTGAGATT CCAGAAGAAT 960 TTTCAATGTC AGCCGTTGAY ATGTCTATGA TTGACCACAT TCCAGATATG ATTGAAAATG 1020

1238 GTGTGGACAG TCTAAAAATC GAAGGACGTA TGTAGTCTAT TCACTAYGTA TCAACAGTAA 1080 CCAACTGCTA CAAGGCGGCT GTGGATGCCT ATCTTGAAAG TCCTGAAAAG TTTGAAGCTA 1140 TCAAACAAGA CTTGGTGGAC GAGATGTGGA AGGTTGCCCA ACGTGAACTG GCTACAGGAT 1200 TTTACTATGG TACACCATCT GAAAATGAGC AGTTGTTTGG TGCTCGTCGT AAAATCCCTG 1260 AGTACAAGTT TGTCGCTGAA GTGGTTTCTT ATGATGATGC GGCACAAACA GCAACTATTC 1320 GTCAACGAAA CGTCATTAAC GAAGGGGACC AAGTTGAGTT TTATGGTCCA GGTTTCCGTC 1380 ATTTTGAAAC CTATATTGAA GATTTGCATG ATGCTAAAGG CAATAAAATC GACCGCGCTC 1440 CAAATCCAAT GGAACTATTG ACTATTAAAG TCCCACAACC TGTTCAATCA GGAGACATGG 1500 TTCGAGCTCT TAAAGAGGGG CTTATCAATC TTTATAAGGA AGATGGAACC AGCGTCACAG 1560 TTCGTGCTTA ATGTAGTTGT TTAGTTTTAA AAAACTATGC AAAGCTCCAT ATACAACACT 1620 TAAACGAGAT TAAAGAATGG CGAAATCCCT TGATGCGCAA GAGATTAGCT GTCTTTTTTA 1680 TTTTTAAGT GATAAAGTCG GAGTTTAGGC ATCAAAGCCT ATCAAATTAA ACAAAGAAGC 1740 GATGTCTTAG ATATTTTGAA AAAAATTAAT AAGCAGAAAA CTCTCTATTA TTTTGTTGTA 1800 GAGAGTTTTT TGTTAATAAA ATTTCACAAA ATGACATTTA TATATTGCAT TAAGTTAGAT 1860 ATATGATATA ATATTGTTAA AAAGAGGCGC AACTTTTTAA AATTAATGAG AATCAAAGAG 1920 AAAACCAATA ATATTAATGG AGGAATAAAA AATGTAAGTA AGCATTATGG TCATTCAATC 1980 ATTCTCAAAG ATATAAATTT TGCACTTAAC AAGGGTGAAA TTGTTGGTCT AGCAGGGAGA 2040 AATGGAGTTG GTAAGAGTAC GTTGATGAAA ATTCTTGTTC AGAATAATCA ACCGACTTCA 2100 GGTAATATTA TAAGCAGTGA TAATGTTGGG TATTTAATCG AAGAACCAAA ATTATTTTTA 2160 TCTAAAACAG GTTTAGAGAA TTTAAAATAT TTGTCAAATT TATATGGTGT TGACTACAAT 2220 CAAGAAAGAT TTAGATGTTT GATCCAAGAG TTAGATTTGA CTCAGTCTAT TAATAAAAAA 2280 GTAAAGACCT ATTCTTTGGG TACAAAACAA AAATTAGCTT TGCTTCTAAC TCTCGTTACG 2340 GAACCTGATA TATTGATTTT AGATGAACCG ACTAATGGTT TAGATATTGA ATCATCACAA 2400 -ATAGTTTTAG CGGTTCTAAA AAAATTAGCT TTACATGAAA ATGTGGGAAT TTTAATATCG 2460 2520 CTTTTGACAT TTCAAAAAGT AGGAAAAGAT AGTCATAATT TCTTGTTTGA GATAGCTTTT 2580 TCATCAGCTA CAGATAGAGA CATTTTCATT ACCAAACAAG AATTTTGGGA TATTGTTTAG 2640 GAAGAGGGAT TGAGAATTAC TATGTCTGGG AATATTCAAA ATAGTGAGCT TTTTAAATTT 2700 TTTAACGAAA ACTCTATTAA AGTAGTTGAT TTTGAAACTA AAAAAGAGAC GCTTAAAGAT 2760 ATTTACCTAA ATCGTTCAAA ATAAAGGAAG GTTATAATCA TGAAATTAAA TAAACAGAAG 2820

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AATCGGATGA	TTTACGTCTT	GTCTAATTTT	CTATATGCTA	TCTCAGTTTC	CATTATTTAT	2880
GCTTTGAATG	GCATTGTGTT	ACTAGTCATA	GTAAGTAAAT	TGGGTATTCC	AGGTGATTTA	2940
GGATTAAATT	TTATAGTAGC	TATTGTAGTC	AATACAATTT	TGTTAGTCCT	GTTTTATTTT	3000
СТАТТАТСТТ	ACATTTTCTA	TTTATACAAA	TTGAAAAGTG	GCTTGGTATw	TGGTATTTTA	3060
GTAGCTTTAC	TACTCTTTAT	СТСТААТАТА	TTAAATACGA	TGATGATGAA	TACTAGTAAT	3120
GATTTGTTTA	TCAAAGCAAT	TGAA				3144

(2) INFORMATION FOR SEQ ID NO: 225:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 3766 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 225:

TACGGTATTA	TTTTTAAGGA	GAAAGAATCA	TGAAAATCAA	AAAATGGCTT	GGTCTAGCAG	60
CCCTTGCTAC	AGTCGCAGGT	TTGGCTCTTG	CAGCTTGCGG	AAACTCAGAA	AAGAAAGCAG	120
ACAATGCAAC	AACTATCAAA	ATCGCAACTG	TTAACCGTAG	CGGTTCTGAA	GAAAAACGTT	180
GGGACAAAAT	CCAAGAATTG	G TTAAA AAAG	ACGGAATTAC	CTTGGAATTT	ACAGAGTTCA	240
CAGACTACTC	ACAACCAAAC	AAAGCAACTG	CTGATGGCGA	AGTAGATTTG	AACGCTTTCC	300
ААСАСТАТАА	CTTCTTGAAC	AACTGGAACA	AAGAAAACGG	AAAAGACCTT	GTAGCGATTG	360
CAGATACTTA	CATCTCTCCA	ATCCGCCTTT	ACTCAGGTTT	GAATGGAAGT	GCCAACAAGT	420
ACACTAAAGT	AGAAGACATC	CCAGCAAACG	GAGAAATCGC	TGTACCGAAT	GACGCTACAA	480
ACGAAAGCCG	TGCGCTTTAT	TTGCTTCAAT	CAGCTGGCTT	GATTAAATTG	GATGTTTCTG	540
GAACTGCTCT	TGCAACAGTT	GCCAACATCA	AAGAAAATCC	AAAGAACTTG	AAAATCACTG	600
AATTGGACGC	TAGCCAAACA	GCTCGTTCAT	TGTCATCAGT	TGACGCTGCC	GTTGTAAACA	660
ATACCTTCGT	TACAGAAGCA	AAATTGGACT	ACAAGAAATC	ACTTTTCAAA	GAACAAGCTG	720
ATGAAAACTC	AAAACAATGG	TACAACATCA	TTGTTGCAAA	AAAAGATTGG	GAAACATCAC	780
CTAAGGCTGA	TGCTATCAAG	AAAGTAATCG	CAGCTTACCA	CACAGATGAC	GTGAAAAAAG	840
TTATCGAAGA	ATCATCAGAT	GGTTTGGATC	AACCAGTTTG	GTAATAAGAA	ACAGGGAGGT	900
GGGAGAGAAA	ATTCCACCTC	TTGCTTTTGT	ATAGAGTATA	GATTGTAAAG	AAGACTATTC	960
GTTCATAGAA	AGGTAGAGAG	AATATGGTTT	TTCCTAGCGA	ACAAGAACAG	ATTGAAAAAT	1020

			1240			
TTGAAAAGGA	TCATGTAGCC	CAGCATTATT	TTGAGGTTTT	GCGTACCTTG	ATTTCTAAGA	1080
AATCAGTCTT	TGCCCAGCAG	GTTGGACTCA	AGGAAGTCGC	AAATTATCTG	GGTGAGATTT	1140
TCAAGCGTGT	TGGAGCTGAA	GTGGAGATTG	ATGAGAGCTA	TACAGCGCCC	TTTGTCATGG	1200
CACATTTCAA	GAGTTCGCGT	CCAGATGCCA	AGACCTTGAT	TTTCTATAAC	CACTATGACA	1260
CTGTGCCAGC	GGATGGGGAT	CAGGTCTGGA	CAGAGGATCC	ktttaccctt	TCGGTCCGCA	1320
ATGGCTTCAT	GTATGGGCGT	GGGGTTGATG	ACGACAAGGG	TCATATCACA	GCTCGCTTGA	1380
GTGCTTTGAG	AAAATATATG	CAGCACCATG	ATGATTTACC	TGTCAATATC	AGCTTTATCA	1440
TGGAGGGAGC	GGAGGAATCG	GCTTCAACAG	ACCTAGATAA	GTATTTGGAA	AAGCATGCAG	1500
ACAAACTCCG	TGGGGCGGAT	TTGTTGGTCT	GGGAACAAGG	GACCAAAAAT	GCCTTGGAAC	1560
AGCTGGAAAT	TTCTGGTGGC	AATAAGGGGA	TTGTGACCTT	TGATGCCAAG	GTAAAAAGCG	1620
CTGATGTGGA	TATCCACTCG	AGTTATGGTG	GTGTTGTGGA	ATCAGCTCCT	TGGTATCTCC	1680
TCCAAGCCTT	ACAGTCTCTT	CGTGCTGCGG	ATGGCCGTAT	CTTGGTTGAA	GGCTTGTACG	1740
AAGAAGTACA	AGAGCCCAAT	GAACGAGAAA	TGGCCTTGCT	AGAAACTTAT	GGTCAACGAA	1800
ACCCAGAGGA	AGTTAGTCGG	ATTTATGGAT	TGGAGTTGCC	TCTCTTACAG	GAGGAGCGGA	1860
TGGCCTTTCT	AAAACGTTTC	TTTTTCGATC	CAGCGCTTAA	TATCGAAGGA	ATCCAGTCTG	1920
GTTATCAAGG	TCAGGGTGTT	AAGACTATTT	TACCTGCAGA	AGCCAGTGCC	AAGCTAGAGG	1980
TTCGTCTGGT	TCCGGGCCTA	GAACCGCATG	ATGTTCTGGA	AAAAATTCGG	AAACAGCTAG	2040
ACAAAAATGG	CTTTGATAAG	GTAGAATTAT	ACTATACCTT	GCGAGAGATG	AGCTATCGAA	2100
GCGATATGAG	CGCACCAGCC	ATTCTCAATG	TGATCGAGTT	GGCCAAGAAA	TTCTATCCAC	2160
AGGGCGTTTC	AGTCTTGCCG	ACGACAGCGG	GGACAGGACC	TATGCATACG	GTCTTTGATG	2220
CCCTAGAGGT	ACCAATGGTT	GCATTCGGTC	TAGGAAATGC	CAATAGCCGA	GACCACGGTG	2280
GAGATGAAAA	TGTGCGAATC	GCTGATTATT	ACACCCATAT	CGAATTAGTA	GAGGAGCTGA	2340
TTAGAAGCTA	TGAGTAGAGA	TATTATCAAG	TTAGATCAGA	TCGATGTGAC	TTTTCACCAA	2400
aagaagagaa	CCATCACAGC	GGTTAAGGAT	GTGACCATTC	ACATCCAAGA	AGGGGATATC	2460
TACGGAATCG	TTGGATATTC	TGGAGCAGGA	AAATCAACCC	TTGTACGGGT	GATTAATCTC	2520
TTGCAAAAAC	CATCTGCAGG	GAAAATTACC	ATTGACGACG	ATGTGATTTT	TGACGGCAAG	2580
GTGACCTTGA	CGGCAGAGCA	GTTGCGTCGT	AAACGTCAAG	ATATCGGAAT	GATTTTCCAG	2640
CATTTTAACC	TGATGAGCCA	AAAGACAGCA	GAGGAGAATG	TAGCCTTTGC	CCTTAAACAC	2700
TCTGAACTCA	GCAAGGAAGA	AAAGAAGGCT	AAAGTAGCTA	AGTTGTTGGA	CTTGGTTGGT	2760
TTGGCAGATC	GTGCTGAAAA	CTACCCTTCA	CAACTATCTG	GAGGGCAAAA	ACAGCGTGTG	2820

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GCAATTGCGC	GTGCCTTGGC	CAATGATCCA	AAAATCTTGA	TTTCAGACGA	GTCAACTTCT	2880
CCCTTGATC	CGAAGACAAC	CAAGCAGATT	TTGGCCTTGT	TGCAAGATTT	GAACCAAAAA	2940
PTAGGCTTGA	CTGTTGTCTT	GATTACGCAT	GAAATGCAGA	TTGTCAAAGA	CATTGCCAAC	3000
CGTGTTGCAG	TTATGCAGGA	TGGGCATTTG	ATTGAAGAGG	GTAGTGTGCT	TGAAATCTTC	3060
CAAACCCTA	AACAACCTTT	GACTCAAGAC	TTTATCTCAA	CAGCTACAGG	TATTGACGAA	3120
GCCATGGTCA	AAATCGAGAA	GCAAGAAATC	GTGGAACACT	TGTCTGAAAA	CAGTCTCTTG	3180
GTGCAACTCA	AGTACGCTGG	AGCTTCAACA	GACGAGCCAC	TTTTGAATGA	ATTGTACAAG	3240
CATTACCAAG	TAATGGCTAA	TATTCTCTAT	GGGAATATCG	AAATTCTCGA	TGGTACTCCT	3300
GTTGGAGAAT	TGGTGGTGGT	TTTGTCAGGT	GAAAAAGCAG	CGTTGGCAGG	TGCCCAAGAA	3360
SCCATTCGTC	AAGCAGGTGT	ACAACTAAAA	GTATTGAAGG	GAGTACAGTA	AGATGGAATC	3420
ATTGATTCAA	ACCTATTTAC	CAAATGTCTA	TAAGATGGGT	TGGGCTGGTC	AGGCAGGCTG	3480
GGGAACGGCT	ATCTACTTAA	CTCTTTATAT	GACAGTTCTT	TCCTTCATTA	TCGGAGGCTT	3540
CTTGGGGCTA	GTGGCAGGTC	TCTTTCTCGT	CTTGACAGCG	CCAGGTGGTG	TCTTGGAGAA	3600
PAAAGTCGTA	TTCTGGATTT	TAGACAAAAT	TACCTCAATT	TTTCGTGCGG	TTCCCTTTAT	3660
CATCCTCTTG	GCAATCTTGT	CACCACTTTC	TCACTTGATT	GTTAAAACAA	GTATCGGGCC	3720
AAATGCAGCC	CTTGTCCCAC	TTTCTTTTGC	AGTCTTTGCC	TTCTGG		3766

(2) INFORMATION FOR SEQ ID NO: 226:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2520 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 226:

TGTTGCTGAG	TTAATCGGTA	CGTTCATGTT	TGTATTCGTC	GGGACAGGAG	CTGTTGTTTT	60
TGGAAATGGT	CTTGATGGCC	TTGGTCACCT	TGGAATCGCC	TTTCCCTTTG	GTTTGGCAAT	120
CGTGGTGGCA	GCCTACTCAA	TCGGAACTGT	TTCAGGTGCT	CACTTGAACC	CGGCTGTTTC	180
GATTGCTATG	TTTGTAAACA	AACGTTTGTC	ATCTTCAGAA	CTTGTAAACT	ACATCCTTGG	240
TCAGGTTGTT	GGAGCTTTCA	TCGCTTCTGG	CGCTGTCTTC	TTCCTCTTGG	CTAACTCAGG	300
TATGTCAACT	GCTAGTCTTG	GTGAAAATGC	CTTGGCAAAC	GGTGTCACTG	TCTTTGGTGG	360
TTTCTTGTTT	GAAGTCATCG	CAACTTTCTT	GTTTGTATTG	GTTATCATGA	CTGTGACTTC	420

			1242	,		
AGAAAGCAAG	GGCAATGGCG	CGATTGCTGG	TTTGGTAATC	GGTTTGTCAT	TGATGGCGAT	480
GATTCTTGTC	GGATTGAAGA	TTACTGGACT	TTCAGTAAAC	CCAGCTCGTA	GCTTGGCACC	540
AGCTGTCTTG	GTAGGCGGCG	CASCCTTCAA	CAAGTTTGGA	TTTTCATCCT	TGCACCAATC	600
GCTGGTGGAG	TTCTTGCAGC	CCTTGTTGCA	AAAAATTTCC	TTGGAACAGA	AGAATAATTG	660
AAACTCAAAA	AGCCTTGCTC	CTCATCTTGA	GGAACAGGGC	TTTTTCGTAT	GATACTCTTC	720
GAAAATCTCT	TCAAACCACG	TCAGCTTCAT	CTTGCCGTAG	TATGGTTACT	GACTTCGTCA	780
GTTCTATCCA	CAACCTCAAA	ACAGTGTTTT	GATCTGACTT	CGTCAGTTCT	ATCTGCAACC	840
TCAAAACAGT	GTTTTAAGCT	GACTTCGTCA	GTTCTATCTG	CAACCTCAAA	ACAGTGTTTT	900
AAGCTGACTT	CGTCAGTTCT	ATCTGCAACC	TCAAAACAGT	GTTTTAAGCT	GACTTCGTCA	. 960
GTTCTATCTG	CAACCTCAAA	ACAGTGTTTT	AAGCTGACTT	CGTCAGTTCT	ATCCACAACC	1020
TCAAAACAGT	GTTTTGATCT	GACTTCGTCA	GTTCTATCCA	CAACCTCAAA	ACAGTGTTTT	1080
GATCTGACTT	CGTCAGTTCT	ATCCACAACC	TCAAAACAGT	GCTTTGAGCA	ACcTGCGGCT	1140
AACTTCCTAG	TTTGCTCTTT	GATTTTCATT	GAGTATGACT	TTAGCGGTTG	TCAATTTTCT	1200
CTGGATAAAG	GTCGTGTTGG	AAGAGGCGTT	GTTCTGCCAA	GCCCTCATAC	TTAGTTCCTT	1260
GCTTACCGTA	GTTGTAGTAG	GGGTCGATTG	AAATGCCACC	GCGCGGAGTG	AATTTTCCCC	1320
AGACTTCTAA	ATAGCGAGGG	TCTAGCAAGT	TGACCAAGTC	TTTCCCGATG	GTGTTGATAC	1380
AGTTTTCGTG	GAAATCTCCG	TGGTTTCGGT	AGCTAAATAG	ATATAGTTTG	AGGGATTTTG	1440
ACTCGACACA	GAGCTTGTCA	GGAATGTAGG	AAATATGAAT	CGTCGCAAAG	TCTGGCTGAG	1500
CAGTGATTTG	TCCCAGCAGA	GACATATCGA	GGATATGGTG	ACGAATGCCC	TGTTCCTTAG	1560
CGATTTCTCT	AGTAATTTGA	ATTTCGAGGT	GATGACGTTG	GCCGTAGGCA	AAGGTGACAG	1620
CTTCGACTGT	TTCATAGTGT	TGCATGACCC	AGAAAAGGCA	GGTTGTTGAA	TCTTGACCAC	1680
CACTAAAGAC	GACCAAGGCT	AATTGACGTT	TCATAGTACT	CCTTCCAAAA	TGGGAAATGT	1740
PCAGAGCACG	CAAAAAGCTC	CCATTAGGGA	GCTAAAAAAT	ACCAAATCGA	GGTTTTTTTA	1800
GCGATGGCAT	ATCCCAAACA	TCGTAATATT	CTACTTATAT	AGTAAAATGA	AATAAGAACA	1860
GGACAAATCG	ATCAGGACAG	TCAAATCGAT	TTCTAACAAT	GTTTTAGAAG	TAGAGGTGTA	1920
CTATTCTAGT	TTCAATCTAC	TATAGTCTAG	CATATTTTTT	GAAAAATGGC	AAAGGGCAAG	1980
AAAAAGAGA	CCAAAGAAAG	TACTTGGTCT	CTCGTTTGAT	TAGCTCAATT	CAGCAATGAT	2040
GCCTTGATT	TGTTCTGCTG	TGTGAACACC	TGCAACTTGT	TTGACAACTT	GGCCGTCTTT	2100
PTTGAAGAGA	AGAGTTGGAA	TAGACATGAT	TCCAAAAGCA	CGAGCTGTGT	TTGGATTTTC	2160
ATCAACGTCC	ATTTTAACGA	TTTTCAAGAC	ATCTTCTGAA	AGTTCTTCAG	ACAATTTGTC	2220

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CAAGATTGGA	CCTTGCATAC	GACATGGACC	ACACCAAGTT	GCCCAGAAGT	CTACTAAGAC	2280
CAAACCGTCT	TTTGTTTCTT	GTTCGAATGT	TGCATCTGTA	ATTGCTTTTG	CCATTGTATT	2340
TCTCCTTTT	TTAGTŤATAT	TGGCTTAAAT	CTTGTTTCAT	GAGATAGAAG	AAGATATCTC	2400
CATAAGTCCC	ATGGTAGTCC	AAATTATGAC	CCTTGTAAGT	TAATTTTTGG	ACAGGGTAGT	2460
AkkCTGCGAC	GCCGATAAGG	CAAGCTTGTT	GCGAACGTTC	AAAGTCTTCA	TAAGACTCGG	2520
(2) INFORM	בס פרש וארזיים	20 TD NO. 21	27.			

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 5278 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 227:

ACTCAGTTAG	ATTTTGTTTT	CAAAAACAAC	GAAGAAAAAG	ACCATGTTGC	TCTACTTGGA	60
AGAATTGGCT	CCGAACGTGT	TTATCGATAT	AAAATAATTA	AATATTTAGA	TTTACCGGAA	120
ACATTCGAAA	ATTATAATGT	TTTTGTACCA	GAAGCTAATG	GAAGTGGTGC	CTTAGGTGAA	180
GTCTTATCAA	CACCCCTAAT	CGGGGAACCC	CTAATCGGGC	ATACAGATAC	TTTTTTATCT	240
ATTGGTAATT	TTAAAACAAA	ATTTGAAGCC	GATGCTTGTA	TTAAATTTAT	ТААААСТААА	300
TTCGCTAGAG	TATTATTAGG	TGTTTTGAAA	GTTACTCAGC	ATAATTCACG	CAAAACTTGG	360
TATTACGTCC	CCCTCCAAGA	CTTTACGGTC	AATTCGGACA	TTGATTGGAC	ACAATCAGTG	420
ACTGATATTG	ACCGCCAGCT	TGATCAAAAA	TATGACTTTT	CCCCTGAAGA	AATTGCCTTT	480
ATTGAGAATC	ATGTAAGGGA	GATGGATTAG	AAAAGTATTT	TTATTTGACA	AATAGTGCTC	540
AATGATCTAA	AATGACTATA	TAGGATTAGG	TCAGGAAGCA	TACGATGCCC	TGACCCTTTT	600
TGTACTTATG	AGATGAGAAA	GTCATTTGTT	AGATAAATTG	ACTCGTTAGC	AAACGTTCAA	660
AAAAGGAAAA	CTTATGCCAG	TAGAAATTAA	AACCACTAAA	GAAATTCATC	СТААААТСТА	720
TGCCTACACC	ACACCGACAG	TAACCAGTAA	TGAAGGCTGG	ATTAAGATTG	GGTATACAGA	780
ACGTGATGTC	ACACAACGTA	TCAAGGAGCA	AACGCATACA	GCTCATATAG	CTACAGATGT	840
CTTATGGACT	GGTGATGCAG	CTTATACAGA	AGAGCCTGAT	AAGGGGAAAA	CTTTCAAGGA	900
CCATGATTTC	CACCATTTCC	TTTCTTTCCA	TGATGTAGAA	CGTCGTCCCA	AGACGGAATG	960
GTTCTATTTT	AATGGAACTC	CTGAAAAATC	AAAAAATCTT	TTTGATAAGT	TTGTTCAGCA	1020
TGATTTGTCT	GGTTATCAGC	CTGGAAAAGG	ACAGGACTAT	ACTCTGCGAC	AAGAGCAAGA	1080

			1244			
AGAAGCAGTT	GCTAAGACAT	TAGCTTATTT		GCTGGAGGCA	AGTTTCTCTG	1140
GAATGCCAAG	CCACGCTTTG	GTAAAACCTT	GTCTACCTAT	GACCTAGCTC	GACGGATGGA	1200
AGCTGTCAAT	GTCCTAATTG	TAACAAACCG	CCCTGCCATT	GCTAACTCAT	GGTATGATGA	1260
TTTTGAAACA	TTCATAGCAG	GTCAAACGAC	TTACAAGTTT	GTTTCTGAAT	CAGATAGCCT	1320
TAAGAGTCGT	CCAATCTTGT	CACGACAAGA	ATTTCTTGGT	ATTTTAGCTG	ACGATGTAAG	1380
ACAACTTGCT	TTTATCAGTC	TCCAAGACTT	GAAAGGATCT	GTTTATTTAG	GTGGAGAGCA	1440
CGATAAACTC	AAATGGGTAA	CTGATCTGCA	TTGGGACTTG	TTGGTTATTG	ACGAGGCTCA	1500
TGAAGGAGTT	GATACCTTCA	AGACTGACCA	AGCCTTTAAT	AAGATTCGAC	GAAATTTTAC	1560
TCTGCATTTG	TCAGGTACAT	CATTTAAAGC	ATTGGCTAAA	GGAGATTTTA	CAGAGGAACA	1620
AATCTACAAC	TGGTCTTATG	CTGATGAGCA	GGCTGCTAAG	TATTCGTGGT	CTCTTGAGCA	1680
AGAAGAGGAA	AATCCTTATG	AAAGCTTGCC	TCAGTTGAAT	CTCTTTACCT	ATCAAATGTC	1740
TCAGATGATT	GGCGAAAAGT	TAGAAAAAGG	CGCTCAGATC	GATGGTGAAA	ATATTGACTA	1800
TGTTTTTGAC	TTAAGTGAAT	TTTTCGCTAC	AGATGATAAA	GGGAAATTTA	TTCATGAGCA	1860
TGATGTCAGA	AATTGGTTAG	ATACTCTATC	AAGCAATGAA	AAATATCCAT	TTTCAACCAA	1920
AGAACTCCGT	AATGAACTCA	AGCATACTTT	TTGGCTTTTA	GAACGTGTCG	CTTCGGCCAA	1980
AGCATTAAAA	GCCCTACTAG	AAGAACACCC	AATCTATGAA	AACTATGAGA	TCGTTCTAGC	2040
TGCTGGTGAC	GGACGTATGT	CCGAAGAAGA	CGATAAAGTC	AAACTCAAAT	CCTTGGACTT	2100
GGTTAGAAAA	GCGATAGCAG	AGAATGACAA	AACCATTACC	CTATCCGTTG	GTCAGCTGAC	2160
GACAGGTGTC	ACTATCCCTG	AATGGACAGG	TGTATTGATG	TTATCAAATT	TGAAATCACC	2220
AGCTCTTTAT	ATGCAGGCCG	CCTTCCGTGC	TCAAAATCCT	TACTCATGGA	GCGATAACAA	2280
AGGAAATCAC	TTTCGCAAAG	AAAGAGCCTA	TGTATTTGAC	TTTGCGCCGG	AAAGAACCTT	2340
GATTCTCTTT	GATGAGTTTG	CCAACAACTT	ATTGCTTGTA	ACTGCAGCTG	GTAGAGGAAC	2400
TTCAGCTACA	CGCGAAGAAA	ATATTAGAGA	ATTATTAAAC	TTCTTTCCAA	TTATTGCCGA	2460
AGACCGTGCT	GGTAAGATGG	TTGAAATTGA	TGCAAAGGCA	GTTCTAACCA	CTCCTCGCCA	2520
GATAAAAGCT	AGAGAAGTTC	TTAAACGAGG	TTTTATGTCC	AATCTCTTAT	TTGATAATAT	2580
TAGTGGTATT	TTCCAAGCAA	GTCAAACAGT	TTTAGATATT	TTAAATGAGC	TGCCAGTTGA	2640
AAAGGAAGGG	AAGGTACAAG	ATAGTTCTGA	TTTATTAGAT	TTTTCAGATG	TTACAGTCGA	2700
TGATGAGGGA	AATGCAGTAG	TAGACCATGA	AATTGTAGTT	AATCAGCAAA	TGCGACTTTT	2760
TGGTGAAAAA	GTTTATGGAC	TTGGTGAATC	TGTTGCTGAG	TTAGTCACAA	AAGATGAGGA	2820
ACGAACTCAA	AAACAGCTGG	TCAATGACTT	GAGTAAGACC	GTTTCTTCAG	TGATTGTAGA	2880

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GGAATTGAAA	GCAGATTATT	CTCTAAAAAC	AAGGGAAACT	GAGCAAATTA	AGAAACAAAT	2940
TACAGCAACA	CTTGAGAATG	AAATTCGAAA	AAATGATATC	GAAAGAAAA	TTTCTGAAGC	3000
TCATATCAAG	CAAGAGTTGC	AACAGCAGCT	CAAAGAAGCA	AATGATAAAG	CGCAAAAAGA	3060
TAAGATTCAA	GAAGATTTGG	AAAAACGTTT	AGAAGAAAAT	AAACTCATTC	ATAAAGAAAA	3120
ACTAGAACAA	ACACTCAAAA	AAGAAGTGGA	AAAAATGCCT	GAGAAATTTA	TCGAACAGGT	3180
TGAGATAAAA	CGTGTGGAAC	AGTTGAAACA	ATCAGCTCAA	GATGAAATTC	GTGACCATTT	3240
ACGAGGGTTT	GCAAGAACAA	TTCCAAGTTT	TATTATGGCT	TACGGTGATC	AAACTCTAAC	3300
ACTTGATAAT	TTTGATGCCT	TTGTTCCTGA	ACATGTTTTT	TATGAAGTAA	CAGGGATTAC	3360
GATTGATCAG	TTTAGATATT	TGCGAGATGG	TGGGCAGGAT	TTTGCAGGGC	ATCTCTTTGA	3420
TAAAGCAACA	TTTGACGAAG	CTATTCAAGA	ATTTCTTCGC	AAGAAAAAGG	AGTTGGCGGA	3480
TTATTTTAAA	GATCAAAAAG	AAGACATTTT	TGACTATATT	CCACCGCAGA	AGACCAACCA	3540
AATTTTCACT	CCTAAACGAG	TGGTGAAAAG	GATGGTAGAT	GATTTGGAAA	AGGAAAATCC	3,600
AGGGATTTT	GATGATCCAT	CTAAGACTTT	TATTGATTTA	TATATGAAGT	CAGGCCTCTA	3660
TATTGCAGAA	CTTGTGAAGC	GGTTATATAA	TAGCAATGGC	TTGAAAGAGG	CCTTTCCAAA	3720
TCCTGAAGAA	CGCTTAAAAC	ATATTTTGGA	AAAGCAAGTT	TATGGATTTG	CTCCGTCTGA	3780
GATTATCTAT	AACATTTCCA	CTAATTTTAT	ATTTGGCAAT	CTTTCTAAAG	ATATCAGTAG	3840
GAAGAATTTT	GTTTTAGCAG	ATACCATTCC	AGCGGCTAAA	GAAGGGAGCA	TTCAAAAGTT	3900
GGTTGATTCC	TATTTTGAAA	AAAATTAAAA	AGAAGGCCGA	GTCAAAATTC	TTTGAAATCA	3960
GAAAAACGC	ATAATATTGA	GTGCTTTTGT	ACTGCCCCCC	AAAAGTTAGA	CAGAAAAAAT	4020
CTAACTTTTG	GGGGGCAGTT	CAGACAATCC	TTGGTATTAT	GCGTTTTATT	GTGGGAAGAT	4080
GTATAATGGA	TTGAAATAAG	ATATGAACAA	ATCAATTAGG	AATTTAAAGC	ATTTTATAAC	4140
AACGTTTTAG	AGTAATGGGG	GGCTATTTCA	ACTTCAACCT	ACTATAATAC	AGAAAAAAAC	4200
AACTCCCTGA	TAATTCAAGG	AGTTGTCTAT	AGTTAAATTA	GTTTTTAGAA	GCTTCTTGGA	4260
ATTCTGGGTT	TTTCCATGCT	TCGTCAATGA	TAGCTTGTAA	TTCTTTAGCA	GATGCTTGCA	4320
TTTTTTGAGT	TTCTGCGTCG	TTCAATGGGA	TATTTACTGG	ACGAACGATA	CCÁTGTGCAC	4380
CAACAACAGC	TGGTTGACCG	ATAAAGACAT	TCTCAACTCC	GTATTGACCT	TCTTGGAATA	4440
CTGAAAGTGG	AAGTACTGCG	TTTTCATCGT	CAAGGATTGC	TTTAGTGATA	CGAGCAAGGG	4500
CTACTGCGAT	ACCGTAGTAT	GTTGCACCTT	TTTTGTTGAT	GATTGTGTAG	GCTGCATCAC	4560
GAACACCTTC	GAACAATTCA	ATCAATTCAG	CTTCTTGAAC	ATTTTGAGTG	TCTTTAAGGA	4620

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			1246			
ATTCTTCAAG	GTTTACACCA	GCGATGTTAG	CGTGTGACCA	AACAGCGAAC	TCAGAGTCAC	4680
CGTGTTCACC	CATGATGTAG	GCGTGCACTG	AACGAGCATC	CACATCCAAT	TTTTCAGCAA	4740
GTGCTTGACG	GAAACGAGCT	GAGTCAAGTG	AAGTACCTGA	ACCGATAACG	CGTTCTTTAG	4800
GGAAACCAGA	GAATTTCCAA	GTTGAGTAAG	TCAAAACGTC	AACTGGGTTA	GCAGCAACAA	4860
GGAAGATACC	TTTGAAACCA	GATTCAACAA	CTTGAGTTAC	GATTGATTTG	TTGATAGCAA	4920
GGTTTTTACC	TACAAGGTCA	AGACGAGTTT	CACCTGGTTT	TTGAGGTGCA	CCTGCAGTGA	4980
TCACAACAAG	GTCAGCGTCT	GCACAGTCAG	AGTATTGAGC	TGCATAGATT	TTTTTAGGTG	5040
AAGTGAAGGC	AAGGCCTGA	CTAAGGTCAA	GCGCATCACC	AACAGCTTTT	TCATGCAATT	5100
GTGGAATTTC	GATAATTCCA	AGCTCTTGTG	CAATTCCTTG	GTTAACAAGT	GCAAAAGCGT	5160
AAGATGAACC	TACAGCACCA	TCACCGACAA	GGATAACTTT	TTTGTGTTGT	TTAGTTGAAG	5220
TCATTGTTTT	AAACATCTCC	TATTTTAT	TAGGGGATTT	TCCCTAGACA	ACTTCATT	5278
(2) INFORMA	ATION FOR SE	O ID NO: 22	28:			

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1941 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 228:

ATAAGGAATC TCTAAAAAAT TTTAAGGAGA ATCTAGCAAA TGGATTTCAC ATGGGCACTG 60 AAGTATGCCA CTGAATTTTT GGGAACTGCC ATTTTGATCA TTCTTGGGAA TGGTGCAGTT 120 GCCAACGTTG AACTTAAAGG TACGAAAGGT CACCAAAGTG GCTGGATCGT CATCGCTGTT 180 GGTTATGGTA TGGGGGTTAT GATCCCAGCC TTGATGTTTG GTAACGTATC TGGGAATCAC 240 ATCAACCCTG CTTTCACTCT AGGGCTTGCA GTTAGCGGTC TTTTCCCTTG GGCACAAGTG 300 GTACCTTACA TTATCGCGCA AGTCTTGGGG GCTATCTTTG GCCAAGCCTT AGTTGTGGCA 360 ACATACCGTC CATTCTACTT GAAAACTGAA AACCCAAATA ACATCTTGGG AACTTTCTCA 420 ACTATTCAA GTATTGACCA TGGTACAAAA GAAAGTCGCT ATGCAGCAAC TGTCAATGGT 480 TTGATTAATG AGTTTGTTGG TTCATTTGTT TTGTTCTTTG CAGCTCTTGG TTTGACTAAA 540 AACTTCTTTG GTGCTGAAGT GCTTCAATTC ATGAAACAAA AGGCAACAGA AGCAGGACAA 600 ACAGTTGATT TTTCTGACTT GGCTATTAAA GCACAGGTGG CTCCACACAC TGCTTCAGGA 660 CTTTCTGTGG CTCACTTGGC ACTTGGATTC CTCGTTATGG CTTTGGTAAC ATCACTTGGA 720 GGACCTACAG GACCTGCCTT GAACCCAGCC CGTGACTTGG GACCACGTCT CCTTCATGCT 780

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TTCCTTCCCA	AATCAGTTCT	TGGTGAGCAT	AAAGGCGATT	CAAAATGGTG	GTATTCTTGG	840
GTACCAGTAG	TAGCACCTAT	CGCAGCAGCA	ATTGCGGCAG	TAGCTGTATT	CAAATTCCTT	900
TATCTCTAAG	AAATAGCTCC	TTTAACATTT	GAGTGAGCAC	CATCTATAAG	TAAGAGAGGA	960
TCAGACTGGk	TCTCTCTTTT	kGATTTTTaG	GGAAATGAAA	GAACTCTAAA	CAAACTCCTC	1020
TCCAGCAGTG	GTTTAGAAGT	CTCAGTGGGC	TATTCCAGCT	TCAATGGACT	ATAGTAGGTT	1080
GCAGTTGAAA	TAATAGACCC	TTGTTTCTAA	AACATTGTGA	GAAATTGGTT	TGAATTCTCC	1140
AATCAAATTG	TGCAGTTTTC	ATTCTACTAT	ATATTATCGG	AATATTATCG	GAGATGGGTT	1200
CCCTATCTTG	TAAGTCTGCT	TTATAGTGGG	TTGAAGTTGG	AATAGTCCTC	CCTTCTTTCT	1260
CAAACATTGT	GAGGAATTGA	TTTACCTTCC	TCAACAAAAT	GTTCAGTTTC	TATTTCATTT	1320
TACTATAAAA	TAAGCGATTA	GGGGGCTAT	TCTTCGACCT	ACATTGACTC	TGCTGAGTCC.	1380
TATGATTGTT	ATCGTTTTAT	CTGCAATTTT	ATACTCAATG	AAAATCAAAG	GGCAAACTAA	1440
GAAGCTAGCC	GCAGGTTGTT	CAAAACACAG	TTTTGAGGTT	GTATAGTAGA	TTGAAACTAG	1500
AATAGTACAC	ATCTACTTCT	AAAACATTGT	TAGAAATCGA	TTTGACTGTC	CTGAACGATT	1560
TGCCCTATTC	TTGTTTCATT	TTACTATATA	AACCAGAGAC	TGTTTACATT	TTCAGCAAGT	1620
GAGTGGATGG	ATAATGCTGA	AAACTCCTTG	AAGGATAAGT	CTATTTAGTA	CTTTCTATTA	1680
attagttaaa	TTTTTACCAA	GAATAATTCA	CAAAAACGTT	GTAAAACACT	TGCAATTTAG	1740
CTGAAATTTG	ATAAAATAGT	AAGGAAAGTT	AGACTGTATT	GCCTACTGTC	TATCTATAAA	1800
ATATATTTA	TTGGAGGCTT	ТТАСТСАААТ	GGCAAAAGAA	AAATACGATC	GTAGTAAACC	1860
ACACGTTAAC	ATTGGTACTA	TCGGACACGT	TGACCACGGT	AAAACTACCC	TAACTGCAGC	1920
TATCACAACT	GTTTTGGCAC	G				1941

(2) INFORMATION FOR SEQ ID NO: 229:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 755 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 229:

ATTTGAAGAA ATTGAAGAAA TCGTAGCCCC TACAGATGGT GAATTTTTGG GGGAAGTTTT 60 ACTTGGAACT GGGGTAGTTC TCTTAATTGG AGTAGCCTGT TGTTAAAAAG ATAGGGAGTG 120 ATAATCATGC AAGATAACTT TTTATTTGAG GAAATTGAAG AAATTTCAGT ACCAGTTAAT

1248 GATTTTTCAG CTGGACTTGC AACAGGTATC GGATTTGGTT TAGCAATCCT TGCTCTTGCT	24
GGTTGTTGAA GTTTGTTCAT TTACTAACAT CAAGCTTTTT CAATTTCATT TTAGACAGTC	30
ATTTAAATTT TCCGTATTAG TCTTGCAGCA AGAGATTAAT AGAATTAGTC ATTATTTAT	36
TGATTGCGGA CTGAGGGACT AGAGTATGTT TTACTTAACC CCTCTTTTAT TTATTAAAGG	42
TTAGGTTTGT TATGAGAATT GTTGATAAGA TTAAGATATT ACCTACTCCT TATGAGGGAC	48
ACTATCATTT ATATATACCA TCCAGTAAGA AACATGTATT AGTTGGGAAA CAGGAAAAAA	54
ATGGTTAGAG CAACTAATAG GTCAAGAATT TACCATATCG GACTTATTAG TGTTAGTAGG	60
GAAGAAATAT TTTTAAAATA TCTTGGGACT TTAATATAAC ATTATCTGAA AAATTAAACT	66
ATAAAAGATT TAATAAGAAT TTTGAAAAAA TCCTATCTTG TTGTCATTAT ATTTGCAACG	72
ATACATGAAA TTAGTCATGC AATAATTGCT AATAA	75
(2) INFORMATION FOR SEQ ID NO: 230:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1483 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 230:	
CCAGAAAAAC CGTAGTGGAG CTCGTGGAAC AGTGGAATTG ATTTTCCAAA AAGAATACAA	6
TAAATTTTCA AGTATCTCAA AGAGGGAGGC ATAAGATGTC AGATGCATTT ACAGATGTAG	12
CCAAGATGAA AAAAATCAAA GAAGAAATCA AGGCACATGA GGGACAAGTC GTAGAAATGA	18
CTTTGGAGAA TGGTCGTAAG CGCCAAAAAA ATAGATTGGG TAAGCTAATT GAAGTTTATC	24
CATCTCTATT TATTGTGGAG TTTGGGGATG TGGAAGGAGA TAAACAAGTT AATGTTTACG	
	30
TTGAATCCTT TACTTACTCA GATATTCTTA CAGAAAAGAA TTTGATTCAT TATCTTGACT	30: 36:
TTGAATCCTT TACTTACTCA GATATTCTTA CAGAAAAGAA TTTGATTCAT TATCTTGACT	
,	36
AAAGTGAGAA ATTTTCTCAC TTTTTCTTTT TTCTCCGAAT AATTTAGGTG AAGGCAATCA	3 6 42
AAAGTGAGAA ATTTTCTCAC TTTTTCTTTT TTCTCCGAAT AATTTAGGTG AAGGCAATCA TCGCTTTATA TTATTTTTCA AGGAGGAAGA ATGAAAATTT TACCGTTTAT AGCAAGAGGA	36 42 48
AAAGTGAGAA ATTTTCTCAC TTTTTCTTTT TTCTCCGAAT AATTTAGGTG AAGGCAATCA TCGCTTTATA TTATTTTTCA AGGAGGAAGA ATGAAAATTT TACCGTTTAT AGCAAGAGGA ACAAGTTATT ACTTGAAGAT GTCAGTTAAA AAGCTTGTTC CTTTTTTAGT AGTAGGATTG	36 42 48 54
AAAGTGAGAA ATTTTCTCAC TTTTTCTTTT TTCTCCGAAT AATTTAGGTG AAGGCAATCA ICGCTTTATA TTATTTTTCA AGGAGGAAGA ATGAAAATTT TACCGTTTAT AGCAAGAGGA ACAAGTTATT ACTTGAAGAT GTCAGTTAAA AAGCTTGTTC CTTTTTTAGT AGTAGGATTG ATGCTAGCAG CTGGTGATAG TGTCTATGCC TATTCCAGAG GAAATGGATC GATTGCGCGT	36 42 48 54

CGTGTAGATA ATACACCGAC GATTGGTTCC ATTACTTGGT CTACTGCAGG AACTTATGGT

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CATGTTGCCT	GGGTGTCAAA	TGTAATGGGA	GATCAGATTG	AGATTGAGGA	АТАТААСТАТ	900
GGTTATACAG	AATCCTATAA	TAAACGAGTT	ATAAAAGCAA	ACACGATGAC	AGGATTTATT	960
CATTTTAAAG	ATTTGGATGG	TGGCAGTGTT	GGGAATAGTC	AATCCTCAAC	TTCAACAGGC	1020
GGAACTCATT	ATTTTAAGAC	CAAGTCTGCT	ATTAAAACTG	AACCTCTAGC	TAGCGGAACT	1080
GTGATTGATT	ACTATTATCC	TGGGGAGAAG	GTTCATTATG	ATCAGATACT	TGAAAAAGAC	1140
GGCTATAAGT	GGTTGAGTTA	TACTGCCTAT	AATGGAAGCT	ATCGTTATGT	TCAATTGGAG	1200
GCTGTGAATA	AAAATCCTCT	AGGTAALTCT	GTTCTTTCTT	CAACAGGTGG	AACTCATTAT	1260
TTTAAGACCA	AGTCTGCTAT	CAAAACTGAA	CCCCTAGTŢA	GTGCAACTGT	GATTGATTAC	1320
TATTATCCTG	GAGAGAAGGT	TCATTATGAT	CAAATTCTCG	AAAAAGACGG	CTACAAGTGG	1380
TTGAGTTATA	CGGCTTATAA	CGGAAGTCGT	CGCTATATAC	AGCTAGAGGG	AGTGACTTCT	1440
TCACAAAATT	ATCAGAATCA	ATCAGGAAAC	ATCTCTAGCT	ATG		1483

(2) INFORMATION FOR SEQ ID NO: 231:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1027 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 231:

CCCGGAAAAC AAGTTAAAGT TGAAGTTGGT CAAGCAGTTT ACGTTGAAAA ATTGAACGTT 60 GAAGCTGGTC AAGAAGTTAC TTTTAACGAA TTGTTCTTGT TGGTGGTGAA AACACTGTTG 120 TCGGAACTCC ACTTGTTGCT GGAGCTACTG TAGTTGGAAC TGTTGAAAAA CAAGGAAAAC 180 AAAAGAAAGT GGTTACTTAC AAGTACAAAC CTAAAAAAGG TAGCCACCGT AAACAAGGTC 240 ACCGTCAACC ATATACAAAA GTTGTCATCA ACGCAATCAA CGCTTAATTT TAAGGAGAAC 300 ACATGATACA GGCAGTCTTT GAGAGAGCCG AAGATGGCGA GCTGAGGAGT GCGGAAATTA 360 CTGGACACGC CGAGAGTGGC GAATACGGCT TAGATGTCGT GTGTGCATCG GTTTCTACGC 420 TTGCCATTAA CTTTATCAAT TCTATTGAGA AATTTGCAGG CTATGAACCA ATCCTAGAAT 480 TAAACGAAGA TGAAGGTGGC TATCTGATGG TTGAAATACC AAAAGATCTT CCTTCACACC 540 AGAGAGAAAT GACCCAGTTA TTCTTTGAAT CATTTTCTT AGGTATGGCA AACTTATCGG 600 AGAACTATTC TGAGTTCGTC CAAACCAGAG TTATCACAGA AAACTAACAC GGAGGAAAAC 660 ATTATGTTAA AAATGACTCT TAACAACTTG CAACTTTTCG CCCACAAAAA AGGTGGAGGT 720

			1250			
TCTACATCAA	ACGGACGTGA	TTCACAAGCA	AAACGTCTTG	GAGCTAAAGC	AGCTGACGGA	780
CAAACTGTAA	CAGGTGGATC	AATCCTTTAC	CGTCAACGTG	GTACACACAT	CTATCCAGGT	840
GTAAACGTTG	GTCGTGGTGG	AGATGATACT	TTGTTCGCTA	AAGTTGAAGG	CGTAGTACGC	900
TTTGAACGTA	AAGGACGCGA	TAAAAAACAA	GTGTCTGTTT	ACCCAATCGC	AAAATAAAA	960
GGTCCATTGA	ACCTTTTATC	CCGAACCTTG	AAATGTAGAG	GTGAGGAAGC	TAGAAACAGC	1020
ТАДДАТ						1027

(2) INFORMATION FOR SEQ ID NO: 232:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1990 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 232:

60	TTCAAGAGAT	ATTGTAGGTT	AATTAATTCT	AATCTACGTT	GGTGCAGGTA	CGGTTCAAAT
120	AACCTTTTGC	GTTAGTTCTC	AGATTTGATA	ATTGTGATAA	GAAATAGAGT	TTATTTAGGA
180	TGAAGGACAA	TATACTACTG	AATTGATTTT	AAACCACAGT	TTTACTCCTC	TCATTTAGGC
240	AGTTGTGTCA	AATGCTGAGA	GTTTGGGAAA	TTGCTGGAAA	GGGCTGAACC	TGTAATATTG
300	AAACATTGTC	AATTTGGTAG	ТАААААААТ	GGTTAGCTGA	GAAATTGTTG	AATAGCCTTA
. 360	CAGATTTTTA	GCTCATAATC	TAGAGCAATA	TCCAGATTGC	CTGCAACGCG	AGGTGGACAA
420	TTTTAATGTA	GCCGAAAAAT	TACTGAATCT	TTGGTTTAGA	GAACCTACCG	TATTTTAGAT
480	ACATAAATCT	TCTTCACATG	TATTATCATA	AAGGAAAAAC	AAGAGTTTGG	TTTAAAAGAT
540	CATTTTTTGG	GGCTCCATAT	TTTACAAAAT	AAATACTTTT	TTTTGTAAAA	ACTCGAAAAG
600	TGCAGAATAG	AATTTTTCAA	татсааатта	ATAATTCAAC	GACTTTGTAG	TGATATGCGT
660	ACATCGAAGA	TTTAAAGTTC	AAATTTTAGA	AATTTTTAGA	TATCAAATTG	AATTTCTAGA
720	TTATCAATGA	ATCTTAGATG	AGAAGAAAAG	AAGTCCCTAT	TTTACAATAG	TAATGATAGT
780	TACAAGAAAG	AAATTAACCT	TTCAACAAGT	TTAAAAACTT	GCATGTGAAA	GGTAGGAAAA
840	CAAATCGGAC	AATTAAGGCA	AAGGCTGATC	GAGAAAAATG	AGAATAGGAG	TTATTTGCAA
900	TTTTAGAAGT	TTATTGCTTT	AAAAATGAGA	GATTATTGCT	GAGGTCTAGC	TTAGGTTTAA
960	ТАТААТААТА	ATGTTGTTTT	CCAATCTTAT	GTTTCTACAA	TTATTTCTCA	AAAGGTTTAA
1020	TTATGCAGAA	TAAAAACCTC	TTTAATGATA	GAACATTCAG	CTTCGATAAA	GGATTAAATT
1080	AGTTATTTAT	AGATGACTCA	ATAATCGGGC	AGCTTTATTG	TTGGTGTTAT	татасаатса

1251

AGGGTGACAA	TAGATAAAAA	ATATGGGCTA	CTTGCTCTTA	AGTTATGCAG	TGGAGTTCGT	1140
CCTTTATATT	ATATTTTAGG	GATGAGTATC	TATTCTATAT	TAGGGTTGAT	AGTTCAAGAA	1200
ATTATTATAT	ATATAATTAC	GTTAGCGTTT	GAGATAAATA	TCGCAATGGA	TAGATTTTTT	1260
TATACAGTTT	TGTTATCTAT	TGTTGTTTTA	TTATTTTGGG	ACTCCCTTGC	AATTTTACTT	1320
ACAATGTTTA	TCAATGATTA	CAGAAGACGT	GATATTGTAA	TACGTTTTGT	ACTAACACCG	1380
CTTGGTTTTA	CAGCTCCTGT	TTTCTACTTA	ATAGATTCTG	CTCCTAGTAT	TGTGAGATGG	1440
ATTGGTCAGT	TAAATCCCTT	AACTTATCAA	TTAACTATTT	TGAGAAACTT	TTATTTAAA	1500
AATTCAAÇAA	CTTTGGAATT	AGTTTTCTTA	TTGTTAACAT	CATTACTTGT	CCTTATATCT	1560
GTATCTTTTA	TTATACCAAA	GATAAAATTG	ATACTGATAG	AAAGATAAAA	GTTGGGTCAT	1620
CCAACTTTTT	TGTTGTCTCC	CGAAAACCAC	TAGCTATGCT	AGTGGTTCCA	TAGAGCTTTT	1680
AGCGTGGTAA	CAAAAAGAAC	CTCCTAAAAT	GATAAGATAG	AAGTGGTTTC	TCCGCCACTA	1740
CAACATATCA	TACAGGAGGT	ACCTCATGAG	AGAGGATAAT	CAAAGTTTAT	CACATACCAC	1800
ATGGAATTGT	AAATATCATA	TTGTTTTTGC	ACCCAAATAT	CGTCGTCAAA	TCATTTATGG	1860
CAGATACAAA	GCTAGTATCG	GAAGAATCAT	ACGTGACTTA	TGTGAGCGTA	AGGGTGTAAT	1920
AATCCATGAA	GCGAATGCTT	GTTCAGACCA	TATTCACATG	CTTATCAGTA	TTCCTCCGAA	1980
ACTTAGTGTT						1990

(2) INFORMATION FOR SEQ ID NO: 233:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 4766 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 233:

G	AACTATATT	GCATATATTT	CTAGCAATGA	TCATGGCGAA	TCTTGGTCTG	CACCAACTTT	60
A	TTACCTCCT	ATAATGGGAC	TTAATCGGAA	TGCGCCATAT	TTAGGTCCTG	GACGTGGAAT	120
С	attgaaagc	TCAACTGGAC	GTATTCTTAT	TCCGTCTTAC	ACTGGTAAAG	AGTCTGCGTT	180
C	ATTTATAGT	GACGATAATG	GAGCATCTTG	GAAAGTTAAA	GTAGTGCCAC	TTCCTTCTAG	240
Т	TGGTCAGCA	GAAGCACAAT	TTGTAGAATT	GAGTCCAGGA	GTAATTCAAG	CATATATGCG	300
Т	ACAAATAAT	GGTAAAATTG	CATATTTAAC	AAGTAAAGAC	GCAGGTACTA	CTTGGAGTGC	360
A	CCGGAATAT	TTGAAATTTG	TTTCAAATCC	AAGTTATGGA	ACACAATTAT	CAATCATCAA	420

1252 TTATAGCCAA TTGATTGATG GTAAAAAGGC TGTCATTTTA AGTACTCCAA ACTCCACAAA 480 TGGTCGTAAA CACGGACAAA TTTGGATTGG TCTAATTAAT GATGATAATA CAATTGATTG 540 GCGTTATCAT CACGACGTTG ATTATAGTAA CTATGGATAC TCATATTCAA CATTGACAGA 600 GTTACCAAAT CATGAAATTG GATTGATGTT TGAAAAATTT GATTCATGGT CTCGTAATGA 660 ACTTCATATG AAAAATGTTG TACCATATAT AACATTTAAG ATTGAAGATC TGAAAAAGAA 720 TTAAAGCTGA AATTTGAAAA TATATAAAAA GAGGATAAAA ATTATGGTAA ATTACGGTAT 780 TGTTGGAGCT GGATATTTTG GAGCTGATTT AGCTCGCTCA ATGAACAAAA TTGAAGATGC 840 AAAAGTGGTT GCGGTATTTG ACCCAAATCA TGGAGAAGAA GTTGCTCAAG AGTTGGGATC 900 AGATGTTTGT GCAAGTTTAG ATGAACTTGT AGCACGTGAA GATATTGATT GTGTGATCGT 960 AGCTTCACCT AGCTACCTTC ACCGTGAACC AGTTGTGAAA GCTGCTCAAC ATGGCAAACA 1020 CGTATTTTGT GAAAAGCCAA TTGCATTGTC TTATGAAGAT TGTAAAGCCA TGGTTGACGC 1080 ATGTAAAGAA AATAATGTCA TCTTTATGGC TGGTCACATC ATGAACTTCT TTAACGGTGT 1140 ACACCATGCT AAAGAATTGA TTACTCAAGG TAAAATCGGT AAAGTTCTTT ATTGCCATGC 1200 TGCTCGTACA GGTTGGGAAG AACAACAACC AACTGTATCA TGGAAGAAAC TTCGTTCTCA 1260 ATCTGGAGGA CATTTGTACC ACCATATTCA TGAATTAGAT TGCATTCAGT TTATCATGGG 1320 AGGACTTCCT GAAAAAGCGA CAATGGTAGG AGGCAATGTA TATCATAAAG GTGAAAACTT 1380 TGGTGATGAA GATGATATGC TCATTGTAAA CTTAGAATAC TCTGATGATC GTTATGCTGT 1440 TTTGGAATAT GGTAATGCTT TCCGTTGGGG TGAACACTAC GTCTTGATTC AAGGAACTGA 1500 AGGAGCTATC AAACTTGACT TGTTCAATAC TGGCGGTACT CTTCGTGTTA AAGGTGAAGG 1560 AGAATCACAC TTCTTAGTTC ATGAAACTCA AGAGGAAGAT GATGATCGTA CAGCTATCTA 1620 TACCGGTCGT GGTATGGATG GAGCAATTGC GTACGGTAAA CCAGGAGTAC GTTGCCCATT 1680 ATGGTTGCAA ACATGTATTG ATAAAGAAAT GGAATATCTA CATGACATCA TTAAAGGTGG 1740 AGAAATTACA GAAGAATTTG AAAAACTTCT CAATGGTGTA GCTGCTTTAG AATCAATCGC 1800 TACCGCTGAT GCATGTACTT TATCAGTTAA AGAAGATCGA AAAGTAAGTC TTTCAGAAAT 1860 CACAAATGCT TAACTTTTGT AAAACAGAAT AGTAAATTCT TGTCATTATA TAATTTCTAA 1920 AGTTCTGTGA TACAACTCAT TGAATAAAGA AATAGAGATG GGACTGGGAT AATGCCCAGT 1980 CCCATTTTTT ATCAAAAAGT AATGAGATCA AAAATGTGGG AGTGTTGAAA TGAAGATTAT 2040 AGGTATCGAT ATTGGCGGAA CAACAATTAA GGCAGATTTA TACGATGAGT TTGGAACGAG 2100 TTTGAATCAT TTCAAAGAGA TAGAAACAAT TATTGACTAT GATTTGGGAA CGAATCAGAT 2160 ATTAAATCAG GTCTGTGATT TAATTGGTGA GTATACTTTA AATCATTCAA TTGATGGTGT 2220

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TGGGATTTCC	ACTGCTGGAG	TTGTTAATGC	TAATACTGGA	GAAATCATCT	ATGCAGGCTA	2280
TACAATACCA	GGGTATATCG	GAGTAAACTT	TACTGCCGAA	ATAGAAAAAC	GTTTTGGGTT	2340
GTATACTTTT	GTTGAAAATG	ATGTTAATTG	TGCTGCATTA	GGTGAATTGT	GGAAGGGACA	2400
AGCCAAAGAT	AAGAAAAATG	TAGTAATGGT	TACTATTGGA	ACAGGTATAG	GAGGCAGTAT	2460
TATTGTCAAC	GGACAAATTG	TTAACGGATT	TAACTATACT	GCTGGTGAAG	TAGGTTATAT	2520
TCCTGTAGGT	AATTCGGATT	GGCAAAGTAA	AGCCTCAACA	ACCGCATTGA	TTCATTTATA	2580
TCAAAAAAAAG	AGCTTGAAAA	CTAATCAAAC	TGGACGTACT	TTCTTCACTG	ATTTAAGATC	2640
TGGAGATAAA	GTTGCTGAAG	AAACTTTTGA	AATTTTTGTA	GAAAATCTAA	CAAAAGGTTT	2700
ATTAACGATT	TCTTATCTAC	TTAATCCAGA	AATTCTCATA	TTAGGAGGTG	GGATTCTGGA	2760
TAGTAAGGAT	ATTTTGTTAC	CTGAAATTCA	AAGTTCTTTA	GCTAAAAATG	CAATGGATAA	2820
TAGGTTTTTA	CCTAAAAATC	TTGTGGCAGC	TACATTAGGA	AATGAAGCTG	GTCGTATAGG	2880
AGCTGTAAAA	AATTTCTTAG	ATAGAATTTC	TAATAAATAG	TATGTAAGAT	AAGGAGGTGT	2940
CACAATGACT	AACTCTGTAT	TTTCGACAAT	GCAAGATATT	GAGAATGTTG	CAACCGATAT	3000
ГАТААААТСА	TATGATAATG	AGATTTATAC	TTATAAAGCT	GTTTCCCAAG	AAGAATTGGA	3060
aaaactagaa	AAAAGTTATG	ATGAAAAAAG	TCACGAAGAA	TTAGTTTCAA	TAGAAAGCAA	3120
ITTAGAAATG	AAACAACAGA	ACCTTATTGA	TGAGGTTAAT	AAAACAATCA	aggaaaatga	3180
TGCAAATATT	CAGTATATTT	CATCAAGTAG	GAGAGGAGAA	TTTGTAGAAA	AAATTATTGG	3240
TAGGGTGGTA	GAAAAATATG	GCCATTAGTC	AGATGAAAAG	AATCTCTCTA	CTATTTTCTA	3300
AAAGTAGTCT	TGATGATGTT	ттаааааста	TTCAAGAACT	AGAGTCAGTG	CAGTTCCGTG	3360
ATTTAAAGGT	TCAGGATAAC	TGGTCAGAAG	CTCTAGAAAA	AGATGAAGTT	GTATTTCCAA	3420
CTATTCAAAT	TTTTCATACT	TCTAATTCCA	ATCATGGGGT	TATTGAGGGA	AATGATGCCT	3480
IGACTTATTT	GATGAATCAA	CAACAACATT	TAGAAGCAAC	TGTAGAGAAA	TTACAAGAAT	3540
ACCTACCGAA	AGAAAACACG	TTTAAATTAT	TGCAGCAACC	TCCGATAACT	ACCTCTTATG	3600
AAGAÄTTAGA	GAAATTTGGT	AAAGCTAATG	TTGCTGAGGG	TGTTCTTAAA	AAAGTGAATC	3660
ATCAAATTAA	CAGAGTTCAT	GAATTAGAAA	GACACATTCA	AAGTAATAAT	GAGGAAATAG	3720
AGCGATTAAT	AAAGTGGGAA	AAATTAGAAA	TTGTTCCTGC	GAATTTAGAA	CAATTTTCTT	3780
ICTGTAAAGG	AAAAGTCGGA	ACAATTCCAA	GGACTGAAGA	TAATCGCTTA	TACAATAGTC	3840
PTTTAGAAAA	CAATATTGAA	GTTCAAGAAA	TATTTTCTAA	TGATAGAGAG	TACGGTGTTG	3900
	mas amams am	m1 000001 c1 0	*****			

			1254			
ATTATTCTAG	AAAGGAATTA	CCGAAGCAGC	GAGTAGTAGA	TTTAGATCAA	GAAAACATGC	4020
AGTTAATAAC	TGAAAAAGAG	AATATTATCG	CATCGTTGCA	AGATTCAAAG	AAATATTTGA	4080
TAGATTTACA	ATGGCAAATA	GACTATATTT	TATCTATCTA	TGCTCGTCAA	ATCTCTAAGA	4140
ATAACTTTTT	GTGCACTCCG	CATCTAGTTG	CATTAGAAGG	ATGGATAGAA	GAAACTCGTA	4200
TTTTATATTT	TATAAAAGTT	ATGGATGAGC	ATTTTGGACA	TTCTATTTAT	ATTTATGAAT	4260
CGGAAACATT	GACGGATAAT	CAAGATGAAA	TACCTATCAA	ATTAACGAAT	CATTCTTTAA	4320
TTGAACCATT	TGAATTATTG	ACAGAAATGT	ATGCTCTGCC	САААТАТТАТ	GAGAAAGATC	4380
CTACACCTGT	ATTAGCACCA	TTTTACTTTA	CATTTTTTGG	AATGATGGTT	GCTGATTTAG	4440
GCTATGGTTT	ACTATTGTTT	TTAGGAACAA	TGTTAGCATT	ТТТТТАААА	CATCTACCTT	45.00
CAGCAACTAA	GAGATTTTTA	AAATTCTTTA	ATATATTAGG	GGTAGCCGTT	GCAATTTGGG	4560
GTGGAATCTA	TGGCTCATTT	TTTGGATATG	AGTTGCCATT	TCATCTGATA	TCTACAACCT	4620
CTGATGTCAT	GACTATATTA	GTAGTGTCAG	TTGTGTTTGG	GTTTATTACA	GTATTTGCAG	4680
GTTTGTTAGC	TTCAGGACTA	CAAAAAGTAA	GAATGAATAA	ATATGCAGAA	GCATATAATT	4740
CAGGATTTGC	GTGGTGTGTT	ATTCTG				4766
(2) INFORM	ATION FOR SE	EQ ID NO: 23	34:			

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2484 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 234:

CCTTTTAGAA AAAATTAAAG AATACGACAC CATTATCATT CATCGTCATA TGAAACCAGA 60 CCCTGATGCC TTGGGAAGTC AGGTGGGATT GAAAGCCTTG CTGGAACATC ATTTCCCAGA 120 AAAAACCATC AAAGCCGTCG GTTTTGATGA ACCAACTCTT ACTTGGATGG CTGAGATGGA 180 TCTTGTTGAA GATAGAGCCT ACCAAGGCGC ACTTGTCATC GTCTGTGATA CAGCTAATAC 240 TGCTCGTATC GATGATAAGC GCTATAGTCA AGGTGATTTT CTCATTAAGA TTGACCACCA 300 TCCAAATGAT GATGTATACG GTGACCTGTC TTGGGTCGAT ACTAGTTCAA GTAGCGCTAG 360 AGATGATTAC CCTATTTGCC CAAACAACCC AACTAGCCTT GGCAGATCGC GATGCTGAGT 420 TGCTCTTTGC AGGAATTGTC GGTGATACAG GTCGCTTCCT CTACCCTTCT ACCACTGCAC GGACTCTTCG CCTGGCTGCT TATTTGAGAG AACATAACTT TGACTTTGCG GCTCTCACTC 540 GCAAAATGGA CACTATGAGC TACAAAATTG CTAAACTGCA AGGCTACATC TACGACCATC

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rggaagtgga	TGAAAATGGT	GCTGCTCGCG	TTATCCTGAG	TCAGAAAATC	TTGAAACAAT	660
CAATATAAC	CGATGCTGAA	ACTGCGGCCA	TTGTAGGTGC	ACCTGGACGC	ATTGACAGAG	720
rgagtetetg	GGGAATTTTT	GTCGAACAGG	CTGATGGCCA	CTACCGAGTT	CGCTTACGCA	780
TAAAGTCCA	TCCTATCAAT	GAAATTGCCA	AGGAGCATGA	TGGTGGAGGC	CACCCTCTAG	840
CAAGTGGTGC	TAATTCCTAT	AGCCTAGAAG	AAAACGAAAT	CATCTACCAA	AAGTTAGAAG	900
CTTGCTTAA	AAACTGATAA	AATACTTGCC	AAACTTTTCA	GAATCTGATA	GACTAGTATA	960
STAACAATCT	ATGGCTCGCA	AAGAGACCAT	GGCAGAAAGG	AAATATTGCA	AAATGAAAAr	1020
GATATCCAT	CCAGAATATC	GCCCAGTTGT	CTTCATGGAC	ACAACTACTG	GTTACCArTT	1080
CTTAGCGGT	TCAACAAAAC	GCTCTAACGA	AACAGTTGAG	TTCGAAGGCG	AAACTTACCC	1140
ATTGATCCGT	GTGGAAATTT	CATCAGACTC	ACACCCATTC	TACACTGGAC	GTCAAAAGTT	1200
CACTCAAGCA	GATGGACGCG	TGGATCGTTT	СААСААААА	TACGGTCTCA	AATAATGATA	1260
GAGAACAGT	TTTGGCTGTT	CTTTTTTGTT	TCTTGAAATC	AACTGCTGTT	TTCATGTTCC	1320
GACTCATCT	GTAGGTTCGA	TTTCCATGCT	ACTAGGCAGG	AAGGAAATAG	CTGTTTCAAC	1380
CGTCCATAA	TGAGCTATAC	TATTGTCACG	AACCACACTT	TCATTGATGG	TCCAAGTGGA	1440
TTCATTTTC	TTAAAAGCTT	CTCGGACTTT	TTCCAAATCT	TTGGAGGCAA	TGGCCTGCTC	1500
AAGGTTTCA	AAACGAGGAC	TTATACTCAT	CTGCTTTCAA	AAAGCATTCT	AGTCCATCTC	1560
GATTACCGA	TGGACTTTAT	CACCTCCTTC	TCCAGTCCTT	GTATGACATC	TTGAAGTTGA	1620
TCATGACAT	CTTCCAAAGT	TCgAAAGGCT	TTATTCTTAA	ATCCACGTTT	ACGAATCTCT	1680
TCCACACTT	GTTCAATGGG	TTCATCTCTG	GTGTGTATGG	AGGAATAAAG	GTAAAATCAA	1740
'ATTAGTCGG	AATATTTAAG	GTACTTGATT	TATGCCATAT	AGCATTGTCC	ATAACGAGTA	1800
AAGGATAAG	CTTGTGAAAG	CTCTTCTAAA	AAGGCGTTCA	TCCACACTCC	AAATATTTTT	1860
CTGAAATAA	GGCATCAATT	GTAACAAATT	CTCCTGCCTC	TGTAGCCTTC	AAATGACGGG	1920
AAGAAAGGC	TTTCTCTTCC	TCAACTGTCA	TATATGCATG	GTTACGACCA	CCACGTGTTT	1980
TTGAAGGAG	AGAGTCGAGT	CCGAACTCCT	CATATTTTTT	TACGTTTCGC	CAAATCGTTG	2040
TTGATTACA	GTCTAAAAGC	TCTATAATCT	CTTTATAAGA	TTTGCCCATC	AGACGAAATA	2100
AGTAGATTG	AAACTAGAAT	AGTACACCTC	тасттстала	ACATTGTTAG	AAATCGATTT	2160
TCCTGTTCT	TGTTTCATTT	TACTATAGAA	CGATTTGAAG	GCGTTTATAA	TATTTAGCTG	2220
ACGAGAGTC	TŤTTAAAAGT	GTTTTGATGG	TTTGGATTTC	TTCTTTAGTT	GATTTCATAT	2280
ACTATTATA	TAATGCTTTT	TGATTTTAGT	CTGGTATAAA	TATTGCTTTC	CTCCAAAATG	2340

GTCATAGTTT	TACTGGCAAA	TCTAACATAT	1256 CACGGATAAA	TTAACAAGTG	ATTTCTGAAT	2400
TGCTAAACAT	TTTCTTTTCT	TATAGCATAC	TTTAAGATTT	TGTCTTTGAG	AAAGATATTT	2460
CCAAGAAAAA	CGTTCGTTTT	TTGG				2484

(2) INFORMATION FOR SEQ ID NO: 235:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1766 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 235:

CTAGATATAG	CTATAATTTT	ATTTATAACA	AGAGGATAGA	AATGACCGAA	TTAGAAAGAA	60
AAAATCGAAA	AATTAGCTAA	GAAATATTCT	GATAACTTAA	ACATCAAAGT	TCAAGAGAGA	120
GTTCGTGAAA	TGGCAAATGA	TAATAAGAGC	CATTATTTGA	TATACAGAGT	TTTAGGTATT	180
TCATTTGAAG	AAGGAGAAAA	TATCGATTTG	TATCAAAATA	AAGGTCGTTT	TTTATACAAA	240
TATGCTGGTT	CATTTTTAGA	AGAAGCTGCA	GTACTATGCT	TTAACGAAAA	ATTTGGTACA	300
GAAAATACTT	AAAAAGTTAA	CATTCCTAAT	TCTGAAAGTA	СААААССТАА	GACTTTTGAA	360
ATTGATTGTT	TAGTCGGAGA	AAAACACGCA	TACGAAATAA	AATGGTGGGA	TGCAACTACA	420
GATGGAGACC	ATATAACTAA	AGAACACACT	AGAATAAAAG	TTATTCATAA	CAAAGGATAT	480
ATACCAATTC	GGTTAATGTT	CTACTATCCA	AATAGAACTC	AAGCTATAAA	AATTCAGCAA	540
actitagaaa	CATTGTATAA	CGGTATTGGA	GGGAAATATT	ATTATGGAGA	TTCTGCCTGG	600
GAACATTTAA	GAGCAGTGAC	CGGTATTGAT	TTACTTAGTA	TTCTAACAGA	TATTGCAAAT	660
AAAAAAACAG	GGGTAAAATC	AAAATGACAG	TATTAAAAGG	AGATAACTTA	GAAATATTAA	720
AAACTATTGA	ATCCTCAAGT	ATTGATTTAA	TCTATATGGA	CCCTCCTTTC	TTTACACAGA	780
AAACCCAAAA	ATTATCTAAT	AACAAAAATA	TTATGTATTC	ATTCGAAGAT	ACGTGGACTT	840
CGATTGAGGA	TTACAAAGAA	TTTTTGTCTG	TAAGATTAGA	AGAATGCAAA	AGAGTGCTAA	900
AAAATAGTGG	CAGTATTTTC	GTTCATTGTG	ATAAAATTGC	AAATCATCAT	ATTAGATTAA	960
TTTTAGATAA	TATCTTTGGA	GTAGATATGT	TTCAAAGCGA	AATTATATGG	AACTATAAAC	1020
GGTGGTCTAA	TTCAAAAAAG	GGATTATTGA	ACAATCATCA	AAACATTTAC	TTTTATTCAA	1080
AGTCAAAAGA	TTTTAAATTT	AATACAATTT	TTACAGAGTA	TTCTTCTACT	ACAAATATCG	1140
АССАААТАСТ	AGTGGAACGA	AAACGAGATG	GAAACTCTAA	ААСТАТАТАТ	AAGGTTGATA	1200
ATAATGGTAA	СТАТАТТСТА	GCAAAAGAGA	AAAATGGAGT	TCCCCTTTCA	GATGTTTGGA	1260

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ATATACCATT	TCTTAATCCA	AAAGCTAAAG	AAAGAGTAGG	TTATCCTACA	CAAAAACCTA	1320
TTCTGTTATT	AGAACAAATT	ATAAAGATTG	CTACTGATAA	AAATGATATA	GTTTTAGACC	1380
CGTTCTGTGG	AAGTGGAACT	ACTTTAGTAG	CCTCCAAGAT	TTTGAATAGA	AATTATATGG	1440
GGATTGATTT	ATCTGAGGAA	GCTATCAATA	TAACTCAGCA	ACGTCTGGAA	AATGTTATAA	1500
AAACAAGTTC	AAATTTATTG	AATAAAGGAA	TCGAAGCATA	TAGAACCAAA	ACTGAGGAAG	1560
AGGAAAACAT	TCTTAAATTA	TTACAGGCAA	AAATTGTTCA	AAGAAATAAA	GGAATTGATG	1620
GTTTTTTACC	TAAACATTTT	CAAAAAAAAC	CGATACCTAT	AAAAATTCAA	AAAAATAATG	1680
AATGTCTGAA	TGAGAGTATC	TCTTTATTAC	AGAATGCTAT	AAACTCCAAA	AAACTTGATT	1740
TTGGAGTAGT	TATAAAAACT	CATTCG				1766

(2) INFORMATION FOR SEQ ID NO: 236:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 748 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 236:

CCGAAAATCA	AATTCAAACC	ACGTCAACGT	CCCCTTCCCC	TACTCAAGTA	CAGCCTGCGG	60
CTAGTTTCCT	AGTTTGCTCT	TTGATTTTCA	TTGAGTATTA	AACTAAATTA	ATTATTATTA	120
GCGCGGAGAA	TTTCTAATTC	TTCCTTGGTC	AAGCGACGCC	ATTCCCCTCG	TTCTAGGTTC	180
TCATCTAATA	CTAAAGTTCC	CATAGTCAAT	CGTTGCAAGT	CCACCACTTC	CTTGCCACAG	240
TAGCCCACCA	TACGCTTGAT	CTGATGAAAC	TTCCCTTCTG	CAATGGTCAC	ACGGATTTGG	300
CTTTGATTCT	TTTCTGTATC	TATGGATACA	AGCTCCAGTA	TAGCGGGTTG	ACAGGTAAAG	360
TCTTTGAGAG	GAATACCCTC	AGCAAATGTC	TCCACATCTT	CTTGGGTCAT	GATTCCCTTG	420
ACTTGTGCCA	GATAAGTCTT	GTCCACATGA	CGCTTGGGCG	AAAGAAGAAC	ATGAGCCAGC	480
TGACCATCAT	TGGTCAAGAG	CAAAAGACCA	TGCGTGTCAA	TATCCAAGCG	TCCTACTGGG	540
AAAACTTCCT	TACTCCGCGC	CAAGTCATCC	AACAAGTCCA	GAACGGTTCT	GTGCTTGGGA	600
TCCTCAGTCG	CTGAGATAAC	TCCTTTGGGC	TTGTTCATCA	TGTAGTAGAC	AAACTCTTCA	660
TACTCCAACA	CTTGCCCATC	AAAGCGAATC	TCATCTATTT	TTTCATCAAT	CTGCAATTTA	720
GCTGATTTTT	CTTTTTGACC	ATTTACAG				748

(2) INFORMATION FOR SEQ ID NO: 237:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1449 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 237:

AAAAGATTAC	ATTGCAACAA	TTGAAAATTA	TCCAAAGGAA	GGCATTACCT	TCCGTGATAT	60
TAGTCCTTTG	ATGGCTGATG	GAAATGCTTA	TAGCTACGCT	GTTCGTGAAA	TCGTTCAGTA	120
TGCTACTGAC	AAGAAAGTCG	ACATGATCGT	GGGACCTGAA	GCTCGTGGAT	TTATCGTGGG	180
TTGTCCAGTT	GCCTTTGAGT	TGGGAATTGG	TTTTGCGCCT	GTTCGTAAGC	CAGGTAAATT	240
GCCACGCGAA	GTTATTTCTG	CTGACTATGA	AAAAGAGTAC	GGTGTCGATA	CCTTGACTAT	- 300
GCACGCGGAT	GCCATTAAGC	CAGGTCAACG	TGTTCTTATT	GTAGATGACC	TTTTGGCGAC	360
AGGTGGAACT	GTTAAGGCAA	CTATCGAGAT	GATTGAAAAA	CTTGGTGGTG	TTATGGCAGG	420
TTGTGCCTTC	CTTGTTGAAT	TGGATGAATT	GAACGGCCGT	GAAAAAATTG	GTGACTACGA	480
CTACAAAGTT	CTTATGCATT	ATTAATGAAA	ACAGTCCCTA	GGGCTGTTTT	CTCTACACTA	540
GGATATAAAA	ATAGACTATA	ACTAGTTAGA	GAAAAACTAT	AATTGAAAAC	TATATCTTCT	600
TGCAGTATAA	TAAAAGGACT	AAGTGTTTGA	GATTTCTCTT	CAAACATATG	CAATTATTCC	660
TGAAAGAGTA	CAGTTAGGAG	AGGGTTATGC	CGATTCGAAT	TGATAAAAA	TTGCCAGCTG	720
TTGAGATTTT	ACGGACAGAG	AATATCTTTG	TCATGGATGA	TCAACGTGCT	GCCCACCAAG	780
ATATCCGTCC	TTTGAAGATT	TTAATTTTAA	ATCTCATGCC	ACAGAAAATG	GTCACAGAGA	840
CCCAGTTGTT	GCGCCACTTG	GCTAATACAC	CCCTACAACT	GGATATTGAT	TTTCTCTATA	900
TGGAGAGCCA	CCGTTCTAAA	ACAACTCGTT	CAGAGCACAT	GGAGACCTTC	TATAAAACTT	960
TTCCTGAAGT	CAAGGATGAG	TATTTTGATG	GGATGATCAT	CACGGGTGCT	CCAGTTGAGC	1020
ATTTACCATT	TGAGGAAGTG	GACTATTGGG	AGGAATTTAG	ACAGATGCTT	GAGTGGTCTA	1080
AGACTCATGT	CTATTCGACC	CTTCATATCT	GTTGGGGGGC	TCAGGCTGGG	CTTTATCTGC	1140
GCTATGGTGT	AGAAAAATAC	CAGATGGACA	GTAAGCTATC	AGGTATTTAT	CCTCAGGACA	1200
CCCTAAAAGA	GGGTCACCTT	CTATTTAGAG	GCTTTGATGA	TAGCTATGTA	TCCCCTCATT	1260
CACGGCACAC	GGAGATTTCT	AAGGAAGAGG	TCTTAAACAA	GACCAATCTC	GAGATTTTAT	1320
CAGAAGGACC	TCAGGTTGGG	GTTTCTATTW	TGGCCAGTCG	TGATTTACGA	GAAATTTATA	1380
GTTTTGGTCA	TTTGGAGTAT	GACCGTGATA	CTTTGGCAAA	AGAGTATTTT	CGAGATCGTG	1440
ATGCAGGTT						1449

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ı	21	INFORMATION	FOR	CPA	TD	NO.	220
١	(2)	INFORMATION	FOR	SEU	1D	NO:	238

111	CECHIENCE	CHADACTED TETTCE.

(A) LENGTH: 904 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 238:

ACTATGGATA ATTGTACCAA ATCCAACTAG TACAAATAGA ACATAAAACA TATTTCTAC ATTGGTACCA GAAGTTGCGT AAAAAACGAC ACAGGCCAAT ACTTCAGCAA GGGCATGAAC AACAGCCAAA ACAAAGTTGA AAATCCAGGA AGATTTTGGT TTATCTAGGG TATCGGGGAA TTTTTGTAGG TAAAGAGCTC CTAAAGCACC AAAAGATATA TGGGAAAAAG CCCGAAAAAC GATAACCATG GGATAGCCAG CCATCAAAAA TCCAAAACTA GAGGCTAGGA TGACAAAAAC TGCCATCAAG GGCGACAAGA ACATGGCTAT AAAAATAGCG ATGTGGCTCC CCAAAGTATA 48 GGAAGCAGGT GGAATGACAA TCTTGAAAGG CATAACAATT GGAATCAAAA TCGCAATAGC CGTTAAAAAGG GCTGTCATTG TCATAAATTG TGTCTTTTTC CGTGTATTCA CAAGAATCTC CTTTTTTAACT GCATATACAC TAGTATGGTA CAATAAACCA GACAATAAAG CAAGAATTTA 66 CTTGGGTTTA TAGATCATTT TTTAGTTAAA AGTTATAGTA GATTGAAACT AGAATAGTCC 72 ACCTCTACTT CTAAAACATT GTTAGAAATC GATTTGCCTG TCCTGATCGA TTTGTCCTGT 78 TCCTACTTCA GGTTTGGAAA GCGGAGATTG TTTTTTTTTT	TACCCGCTTC	TTTCAAGAGT	TGGAGCAGGG	CTTGTTTGCG	ATCTTTTGTC	ATAGTTCTTC	60
ATTGGTACCA GAAGTTGCGT AAAAAACGAC ACAGGCCAAT ACTTCAGCAA GGGCATGAAC AACAGCCAAA ACAAAGTTGA AAATCCAGGA AGATTTTGGT TTATCTAGGG TATCGGGGAA 30 TTTTTGTAGG TAAAGAGCTC CTAAAGCACC AAAAGATATA TGGGAAAAAAG CCCGAAAAAC GATAACCATG GGATAGCCAG CCATCAAAAA TCCAAAACTA GAGGCTAGGA TGACAAAAAAC 42 TGCCATCAAG GGCGACAAGA ACATGGCTAT AAAAATAGCG ATGTGGCTCC CCAAAGTATA 48 GGAAGCAGGT GGAATGACAA TCTTGAAAGG CATAACAATT GGAATCAAAA TCGCAATAGC 54 CGTTAAAAAGG GCTGTCATTG TCATAAATTG TGTCTTTTTC CGTGTATTCA CAAGAATCTC 60 CTTTTTTAACT GCATATACAC TAGTATGGTA CAATAAACCA GACAATAAAG CAAGAATTTA 66 CTTGGGTTTA TAGATCATT TTTAGTTAAA AGTTATAGTA GATTGAAACT AGAATAGTCC 72 ACCTCTACTT CTAAAACATT GTTAGAAATC GATTTGCCTG TCCTGATCGA TTTGTCCTGT 78 TCTTATTTCG TTTTACTATA GTAAAGATTT CATTAAAAAG AAACTGTATA GAGCAAAATC 84 TCCACCTTCA GGTTTGGAAA GCGGAGATTG TTTNTTATTT TTTCCAGGGT TTGTAGTCGT 90	CTTTTAACGG	CGTTTTCGAA	GCACTTTATA	GACAGCTAGT	GCTAATGTAT	AGTCTACCAT	120
AACAGCCAAA ACAAAGTTGA AAATCCAGGA AGATTTTGGT TTATCTAGGG TATCGGGGAA TTTTTTGTAGG TAAAGAGCTC CTAAAGCACC AAAAGATATA TGGGAAAAAG CCCGAAAAAC GATAACCATG GGATAGCCAG CCATCAAAAA TCCAAAACTA GAGGCTAGGA TGACAAAAAC 42 TGCCATCAAG GGCGACAAGA ACATGGCTAT AAAAATAGCG ATGTGGCTCC CCAAAGTATA 48 GGAAGCAGGT GGAATGACAA TCTTGAAAGG CATAACAATT GGAATCAAAA TCGCAATAGC CGTTAAAAAGG GCTGTCATTG TCATAAATTG TGTCTTTTTC CGTGTATTCA CAAGAATCTC 60 CTTTTTTAACT GCATATACAC TAGTATGGTA CAATAAACCA GACAATAAAG CAAGAATTTA 66 CTTGGGTTTA TAGATCATTT TTTAGTTAAA AGTTATAGTA GATTGAAACT AGAATAGTCC 72 ACCTCTACTT CTAAAACATT GTTAGAAATC GATTTGCCTG TCCTGATCGA TTTGTCCTGT 78 TCTTATTTCG TTTTACTATA GTAAAGATTT CATTAAAAAG AAACTGTATA GAGCAAAATC 84 TCCACCTTCA GGTTTGGAAA GCGGAGATTG TTTTTTTTTT	ACTATGGATA	ATTGTACCAA	ATCCAACTAG	TACAAATAGA	ACATAAAACA	TATTTTCTAC	180
TTTTTGTAGG TAAAGAGCTC CTAAAGCACC AAAAGATATA TGGGAAAAAG CCCGAAAAAC GATAACCATG GGATAGCCAG CCATCAAAAA TCCAAAACTA GAGGCTAGGA TGACAAAAAC 42 TGCCATCAAG GGCGACAAGA ACATGGCTAT AAAAATAGCG ATGTGGCTCC CCAAAGTATA 48 GGAAGCAGGT GGAATGACAA TCTTGAAAGG CATAACAATT GGAATCAAAA TCGCAATAGC 54 CGTTAAAAAGG GCTGTCATTG TCATAAATTG TGTCTTTTTC CGTGTATTCA CAAGAATCTC 60 CTTTTTAACT GCATATACAC TAGTATGGTA CAATAAACCA GACAATAAAG CAAGAATTTA 66 CTTGGGTTTA TAGATCATT TTTAGTTAAA AGTTATAGTA GATTGAAACT AGAATAGTCC 72 ACCTCTACTT CTAAAACATT GTTAGAAATC GATTTGCCTG TCCTGATCGA TTTGTCCTGT 78 TCTTATTTCG TTTTACTATA GTAAAGATTT CATTAAAAAG AAACTGTATA GAGCAAAATC 84 TCCACCTTCA GGTTTGGAAA GCGGAGATTG TTTNTTATTT TTTCCAGGGT TTGTAGTCGT 90	ATTGGTACCA	GAAGTTGCGT	AAAAAACGAC	ACAGGCCAAT	ACTTCAGCAA	GGGCATGAAC	240
GATAACCATG GGATAGCCAG CCATCAAAAA TCCAAAACTA GAGGCTAGGA TGACAAAAAC 42 TGCCATCAAG GGCGACAAGA ACATGGCTAT AAAAATAGCG ATGTGGCTCC CCAAAGTATA 48 GGAAGCAGGT GGAATGACAA TCTTGAAAGG CATAACAATT GGAATCAAAA TCGCAATAGC 54 CGTTAAAAAGG GCTGTCATTG TCATAAATTG TGTCTTTTTC CGTGTATTCA CAAGAATCTC 60 CTTTTTAACT GCATATACAC TAGTATGGTA CAATAAACCA GACAATAAAG CAAGAATTTA 66 CTTGGGTTTA TAGATCATTT TTTAGTTAAA AGTTATAGTA GATTGAAACT AGAATAGTCC 72 ACCTCTACTT CTAAAACATT GTTAGAAATC GATTTGCCTG TCCTGATCGA TTTGTCCTGT 78 TCTTATTTCG TTTTACTATA GTAAAGATTT CATTAAAAAG AAACTGTATA GAGCAAAATC 84 TCCACCTTCA GGTTTGGAAA GCGGAGATTG TTTTTTTTTT	AACAGCCAAA	ACAAAGTTGA	AAATCCAGGA	AGATTTTGGT	TTATCTAGGG	TATCGGGGAA	300
TGCCATCAAG GGCGACAAGA ACATGGCTAT AAAAATAGCG ATGTGGCTCC CCAAAGTATA 48 GGAAGCAGGT GGAATGACAA TCTTGAAAGG CATAACAATT GGAATCAAAA TCGCAATAGC 54 CGTTAAAAAGG GCTGTCATTG TCATAAAATTG TGTCTTTTTC CGTGTATTCA CAAGAATCTC 60 CTTTTTAACT GCATATACAC TAGTATGGTA CAATAAACCA GACAATAAAG CAAGAATTTA 66 CTTGGGTTTA TAGATCATTT TTTAGTTAAA AGTTATAGTA GATTGAAACT AGAATAGTCC 72 ACCTCTACTT CTAAAACATT GTTAGAAATC GATTTGGCTG TCCTGATCGA TTTGTCCTGT 78 TCTTATTTCG TTTTACTATA GTAAAGATTT CATTAAAAAG AAACTGTATA GAGCAAAATC 84 TCCACCTTCA GGTTTGGAAA GCGGAGATTG TTTnTTATTT TTTCCAGGGT TTGTAGTCGT 90	TTTTTGTAGG	TAAAGAGCTC	CTAAAGCACC	AAAAGATATA	TGGGAAAAAG	CCCGAAAAAC	360
GGAAGCAGGT GGAATGACAA TCTTGAAAGG CATAACAATT GGAATCAAAA TCGCAATAGC CGTTAAAAGG GCTGTCATTG TCATAAATTG TGTCTTTTTC CGTGTATTCA CAAGAATCTC 60 CTTTTTAACT GCATATACAC TAGTATGGTA CAATAAACCA GACAATAAAG CAAGAATTTA CTTGGGTTTA TAGATCATTT TTTAGTTAAA AGTTATAGTA GATTGAAACT AGAATAGTCC 72 ACCTCTACTT CTAAAACATT GTTAGAAATC GATTTGGCTG TCCTGATCGA TTTGTCCTGT 78 TCTTATTTCG TTTTACTATA GTAAAGATTT CATTAAAAAG AAACTGTATA GAGCAAAATC 84 TCCACCTTCA GGTTTGGAAA GCGGAGATTG TTTnTTATTT TTTCCAGGGT TTGTAGTCGT 90	GATAACCATG	GGATAGCCAG	CCATCAAAAA	тссааааста	GAGGCTAGGA	TGACAAAAAC	420
CGTTAAAAGG GCTGTCATTG TCATAAATTG TGTCTTTTTC CGTGTATTCA CAAGAATCTC 60 CTTTTTAACT GCATATACAC TAGTATGGTA CAATAAACCA GACAATAAAG CAAGAATTTA 66 CTTGGGTTTA TAGATCATTT TTTAGTTAAA AGTTATAGTA GATTGAAACT AGAATAGTCC 72 ACCTCTACTT CTAAAACATT GTTAGAAATC GATTTGGCTG TCCTGATCGA TTTGTCCTGT 78 TCTTATTTCG TTTTACTATA GTAAAGATTT CATTAAAAAG AAACTGTATA GAGCAAAATC 84 TCCACCTTCA GGTTTGGAAA GCGGAGATTG TTTnTTATTT TTTCCAGGGT TTGTAGTCGT 90	TGCCATCAAG	GGCGACAAGA	ACATGGCTAT	AAAAATAGCG	ATGTGGCTCC	CCAAAGTATA	480
CTTTTTAACT GCATATACAC TAGTATGGTA CAATAAACCA GACAATAAAG CAAGAATTTA 66 CTTGGGTTTA TAGATCATTT TTTAGTTAAA AGTTATAGTA GATTGAAACT AGAATAGTCC 72 ACCTCTACTT CTAAAACATT GTTAGAAATC GATTTGGCTG TCCTGATCGA TTTGTCCTGT 78 TCTTATTTCG TTTTACTATA GTAAAGATTT CATTAAAAAG AAACTGTATA GAGCAAAATC 84 TCCACCTTCA GGTTTGGAAA GCGGAGATTG TTTnTTATTT TTTCCAGGGT TTGTAGTCGT 90	GGAAGCAGGT	GGAATGACAA	TCTTGAAAGG	CATAACAATT	GGAATCAAAA	TCGCAATAGC	540
CTTGGGTTTA TAGATCATTT TTTAGTTAAA AGTTATAGTA GATTGAAACT AGAATAGTCC 72 ACCTCTACTT CTAAAACATT GTTAGAAATC GATTTGGCTG TCCTGATCGA TTTGTCCTGT 78 TCTTATTTCG TTTTACTATA GTAAAGATTT CATTAAAAAG AAACTGTATA GAGCAAAATC 84 TCCACCTTCA GGTTTGGAAA GCGGAGATTG TTTnTTATTT TTTCCAGGGT TTGTAGTCGT 90	CGTTAAAAGG	GCTGTCATTG	TCATAAATTG	TGTCTTTTTC	CCTCTATTCA	CAAGAATCTC	600
ACCTCTACTT CTAAAACATT GTTAGAAATC GATTTGGCTG TCCTGATCGA TTTGTCCTGT 78 TCTTATTTCG TTTTACTATA GTAAAGATTT CATTAAAAAG AAACTGTATA GAGCAAAATC 84 TCCACCTTCA GGTTTGGAAA GCGGAGATTG TTTnTTATTT TTTCCAGGGT TTGTAGTCGT 90	СТТТТТААСТ	GCATATACAC	TAGTATGGTA	CAATAAACCA	GACAATAAAG	CAAGAATTTA	. 660
TCTTATTTCG TTTTACTATA GTAAAGATTT CATTAAAAAG AAACTGTATA GAGCAAAATC 84 TCCACCTTCA GGTTTGGAAA GCGGAGATTG TTTnTTATTT TTTCCAGGGT TTGTAGTCGT 90	CTTGGGTTTA	TAGATCATTT	TTTAGTTAAA	AGTTATAGTA	GATTGAAACT	AGAATAGTCC	720
TCCACCTTCA GGTTTGGAAA GCGGAGATTG TTTnTTATTT TTTCCAGGGT TTGTAGTCGT 90	ACCTCTACTT	CTAAAACATT	GTTAGAAATC	GATTTGGCTG	TCCTGATCGA	TTTGTCCTGT	780
,	TCTTATTTCG	TTTTACTATA	GTAAAGATTT	CATTAAAAAG	AAACTGTATA	GAGCAAAATC	840
GGGA , 90	TCCACCTTCA	GGTTTGGAAA	GCGGAGATTG	TTTnTTATTT	TTTCCAGGGT	TTGTAGTCGT	900
	GGGA		•				904

(2) INFORMATION FOR SEQ ID NO: 239:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 946 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 239:

CACTCAAACA TGACTTATAT CAAGACGGAT GGACTTCAAG ACGATGCCAA TCGCTTGAAT

			1260					
CGTAACATTC	AGTTTGGTGT	TCGTGAATTT	GCAATGGGAA	CAATCTTGAA	CGGGATGGCC	120		
CTTCATGGTG	GACTTCGTGT	ATACGGTGGA	ACTITCTTCG	TCTTCTCTGA	CTATGTGAAG	180		
GCAGCTGTCC	GCTTGTCAGC	CTTACAAGGA	CTTCCTGTGA	CTTATGTCTT	TACCCATGAT	240		
TCAATCGCAG	TTGGGGAAGA	TGGTCCGACT	CATGAACCAG	TTGAGCATTT	AGCAGGTCTT	300		
CGTGCTATGC	CAAATCTAAA	TGTTTTCCGT	CCAGCAGATG	CGCGTGAAAC	GCAAGCAGCT	360		
TGGTACCTTG	CAGTGACAAG	TGAGAAAACA	CCAACTGCCC	TTGTCTTGAC	ACGTCAAAAT	420		
TTGACTGTTG	AAGATGGAAC	AGACTTCGAC	AAGGTTGCTA	AAGGTGCTTA	TGTTGTATAT	480		
GAAAATGCAG	CCGACTTTGA	TACCATCTTG	ATTGCGACAG	GTTCAGAGGT	TAATCTTGCT -	540		
GTCTCAGCTG	CTAAAGAATT	GGCTAGTCAA	GGCGAAAAA	TCCGCGTAGT	CAGCATGCCA	600		
TCTACAGATG	TCTTTGATAA	ACAAGATGCA	GCTTACAAGG	AAGAAATTCT	TCCAAATGCA	660		
GTCCGCCGTC	GTGTTGCAGT	CGAAATGGGT	GCAAGTCAAA	ACTGGTACAA	ATATGTTGGT	720		
CTCGATGGTG	CCGTTCTAGG	TATTGATACT	TCGGAGCCTC	TGCCCCAGCA	CCAAAAGTAT	780		
TGGCAGAATA	TGGCTTTACT	GTAGAAAATC	TTGTAAAAGT	TGTTCGAAAC	TTGAAATAAT	840		
CCTAAAAATC	AGGGCGTAAG	CTCTGGTTTT	TCTTACCAGA	AAAGTAAGGT	ACAATCTTGT	900		
AAAAGTAGCT	GAAATTTGAT	ATAGTAGTCC	TATGTAAAAG	ACAAAG		946		
(2) INFORMATION FOR SEQ ID NO: 240:								

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2764 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 240:

CGGGGC'	rccc	TAGTTCTTAG	GGAGCTATTT	TIGITITITC	AAGAAGTTAT	CTTCTTGTAT	60
PTTATA	CTCA	ATGAAAATCA	AAGAGCAAGC	TAGGAAACTA	GCCGTAssTG	CTCAAAACAC	120
rgtttt	GAGG	TTGTAGATAA	GACTGACAAA	GTCAGGAACA	CATATCTACG	GCAAGGCGAC	180
STTGAC	GCGG	TTTGAAGAGA	TTTTCGAAGA	GTATTAGTTG	TGAATCTGGT	GCAGTCGTCC	240
CAGATTA	ATTC	TTATTAGTAG	GGTCTTGTTT	TCTATATCCC	CTCGTAGTTA	ACAAGACCTT	300
GAGCATT	TTTA	GAAAGAGGAA	TCTATGTCTA	CGAAATATAT	TTTTGTAACT	GGTGGTGTGG	360
PATCGTO	CCAT	TGGGAAAGGG	ATTGTGGCAG	CGAGTCTAGG	CCGTCTCTTG	AAAAATCGTG	420
STCTCA	AAGT	AACCATTCAA	AAGTTTGACC	CTTATATCAA	TATTGATCCG	GGAACCATGA	480
GTCCTT?	ACCA	GCACGGGGAA	GTTTTTGTGA	CAGATGACGG	AGCTGAGACA	GATTTGGACT	540

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TGGGTCACTA	TGAACGTTTC	ATCGATATCA	ATCTCAACAA	ATATTCCAAC	GTGACAACTG	600
GGAAAATTTA	CAGTGAAGTT	CTTCGTAAAG	AACGCCGTGG	AGAATACCTT	GGGGCAACTG	660
TTCAAGTCAT	TCCTCATATC	ACAGATGCTT	TGAAAGAAAA	AATCAAGCGT	GCCGCTCTAA	720
CGACCGACTC	TGATGTCATT	ATCACAGAGG	TTGGTGGAAC	AGTAGGAGAT	ATCGAGTCCT	780
TGCCATTCCT	AGAGGCTCTT	CGTCAGATGA	AGGCAGATGT	GGGTGCGGAT	AATGTCATGT	840
ATATCCATAC	AACCTTGCTT	CCTTACCTCA	AGGCTGCTGG	TGAAATGAAA	ACCAAACCAA	900
CCCAACACTC	TGTCAAAGAA	TTGCGTGGCT	TGGGAATCCA	ACCAAATATG	TTGGTTATTC	960
GTACAGAAGA	GCCAGCTGGT	CAAGGAATTA	AAAATAAACT	GGCCCAGTTC	TGTGATGTGG	1020
CACCAGAAGC	CGTTATCGAA	TCGTTGGATG	TTGAACACCT	TTACCAAATT	CCACTGAACT	1080
TGCAGGCACA	AGGGATGGAC	CAAATTGTTT	GTGATCATTT	GAAATTAGAC	GCACCAGCAG	1140
CGGATATGAC	AGAATGGTCA	GCCATGGTGG	ACAAGGTCAT	GAACCTCAAG	AAACAAGTTA	1200
AGATTTCCCT	TGTTGGTAAG	TATGTGGAGT	TGCAAGATGC	CTATATCTCA	GTGGTCGAAG	1260
CCTTGAAACA	CTCTGGCTAT	GTCAATGATG	CAGAAGTTAA	AATCAATTGG	GTCAATGCCA	1320
ATGATGTGAC	AGCAGAGAAT	GTAGCAGAAC	TCTTGTCTGA	TGCGGACGGG	ATCATCGTAC	1380
CAGGTGGTTT	TGGTCAACGT	GGTACAGAAG	GGAAAATCCA	AGCCATCCGC	TATGCGCGTG	1440
AAAATGATGT	TCCAATGTTG	GGAGTCTGCT	TGGGAATGCA	GTTGACATGT	ATCGAGTTTG	1500
CTCGTCACGT	TTTAGGTCTT	GAAGGTGCCA	ATTCTGCAGA	GCTTGCACCA	GAAACAAAAT	1560
ACCCTATCAT	TGATATCATG	CGTGATCAGA	TTGATATTGA	GGATATGGGT	GGAACCCTTC	1620
GTTTGGGACT	TTATCCGTCT	AAGTTGAAAC	GTGGCTCTAA	GCCTGCTGCT	GCTTATCACA	1680
ATCAAGAAGT	GGTGCAACGC	CGTCACCGTC	ACCGTTATGA	GTTTAATAAT	GCCTTCCGTG	1740
AGCAGTTTGA	GGCAGCAGGT	TTTGTCTTTT	CAGGAGTTTC	TCCAGACAAT	CGTTTGGTAG	1800
AAATCGTGGA	AATTCCTGAA	AATAAATTCT	TTGTAGCTTG	TCAGTATCAC	CCTGAACTGT	1860
CAAGCCGTCC	AAACCGACCA	GAAGAACTCT	ACACTGCCTT	TGTTACTGCA	GCAGTTGAGA	1920
ACAGCAATTA	GCAAAATCAG	AACCTTTGAG	AAAAATCTÇA	GAGGTTTTTT	GCATACGATG	1980
ATATTGCAGT	ATATCTGAGG	TAGGGGTCCT	CTGTATGTAC	CTGCTACCGT	TGAAATCAAT	2040
AGCGACTCCC	TCTTGCCCTG	TGCTAGTGAA	TGGATTTATC	AGTATATTGA	AATGAAATAA	2100
AATTTGAACA	AATTAATTCG	GAAAGCCAAA	TCAATTTCTA	GCAAAGTTTT	AGGAACTGGA	2160
TTGTATAGTG	AATTGAAATA	AGATGTGAAC	ATCTCTATCA	GGAAAGTCAA	ATTAATTTAT	2220
AGAAATATTT	TAGCAGTCAA	GATGTACTGT	TATAGATTCA	ATACATTATA	СТТТТТТААТ	2280

	•		1262			
TTAATCCACT	ATAGTAAAAT	GAAATAATAA	CAGGACAAAT	CGATCAGGAC	AGTCAAATCG	2340
ATTTCTAACA	ATGTTTTAGA	AATAGAGGTG	TACTATTCTA	GTTTCAATAT	ACTATCCCAA	2400
ATCATTCATA	CCTCTCTCAA	CTAGATGTAA	CTTACAAAAC	CCCTGACCTC	ATGAGCCACT	2460
TTCTTCCTCC	TCATGAGGTC	AGTTTTACTT	TCTGCTGTTC	CAGTATCGTT	TTTCCTCGCT	2520
AGATTTCCTC	AAAAGGGCAG	ACTCCTCCCT	TGGTGCGTCA	CACGATTTTT	TCATCTCCAC	2580
тстттаа	TGCATCATTA	ACGACGCTTT	TCTTCTAGGT	ĢGTTCATAAG	GAACAGGAAG	2640
ATTCAGGTTG	ACTTTTCTAA	TCCTAGAATA	AAGTGCTGAA	AACAATTCGG	AATAGGCATA	2700
GAGACTAGAC	AATTTGAGGA	GCTGCTTGCG	TCCTGTTCGA	ACACATTTTC	CCACCACGTG	2760
AAGA						2764

(2) INFORMATION FOR SEQ ID NO: 241:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1682 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 241:

CCGTTTTTTT	CATTGTTCAG	TACTACAACT	TACGTTGTAG	CGCCCTGCAC	ATTGGTTCGT	60
CTTGTTCAGT	TTTCAAAGGT	CTTTGTCACT	TGCTTCTCTC	AAGCGACAAC	TATATTAGTA	120
TATCACAACT	GCTTTCGCTT	GTCAACACTT	TTTTGAAGAT	TTTTAAGTTT	TTTTAAACTT	180
TTTTTCATCA	AGTGGTCCTG	ACGCAACATA	CCATAGTCCG	TACGGGATTC	GAACCCGTGT	240
TACCGCCGTG	AAAAGGCGGT	GTCTTAACCC	CTTGACCAAC	GGACCTGAGT	TGTTATTTTC	300
AACTCTTACT	ATTATACAGT	CTTTTCAAAC	TTTGTCAACT	ACTTTTTAA	ACTTTTTTA	360
TTAATTTTAC	AACAGCTTCA	GTTCGAGCTG	TATGTGGGAA	CATATCGACC	GACTGGATAT	420
AATGAAGATC	ATAGACTTCT	ACTAAGCGTA	CCAAATCACG	AGCCAAGGTC	GAAACATTAC	480
AAGAAATATA	AACCATTTTT	TCTGGTACAT	AAGTAAGAAT	AGTATCTAAT	AACTTATCAT	540
CCAGACCTGT	ACGTGGTGGG	TCAACAATCA	AAGCATCTGC	TCGGTAGCCT	TCCTTGTACC	600
AACGAGGAAT	AATCTCTTCT	GCCGTTCCAG	CTTCATAATG	AGTATTGTCA	AATCCCATTC	660
TTTTAGCATT	TCGCTTGGCA	TCTTCAATAG	CTTCTGGAAT	AATATCCATA	CCTCTGAGTG	720
тттттасттт	CTTTGCAAAG	GCAAATCCAA	TCGTTCCAAC	TCCACAATAA	GCGTCAATCA	780
AATGGTCTTC	TTTATCAACA	TCCAGCGCTT	TTACTGCTTC	GCTATAGAGG	ACTTCTGTTT	840
GCTCAGGATT	TAGTTGATAA	AAAGCTCGAG	GGGATAGTGA	AAATTCATAA	TTGAGTACAC	900

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CTTCTTGAAT	ACTCTCTTGC	CCCCAGATAA	TCTCTGTCTT	TTCACCATAT	ATCTCACTGG	960
TTTTAGCTGT	ATTTGTATTA	ACAGCTACTG	TCACAACTTC	TGGGAAATCT	TTAACCAACT	1020
CTTTTACCAA	TTGAGTTAAA	TTAAGCTGGC	GGTTTGTAAC	ААТААТААТС	TGAACCTGTC	1080
CGGTCTTTCT	CGCGCGTCGG	ACCATAATAG	TACGGACACC	TAGAACTTTT	CTCTCATCCG	1140
TGATTGGAAT	CTGGTGATAA	GTAAGTAATT	CTGCTAAGCG	ATTAGCAATC	ACTTGGGTTT	1200
CCTTATCTTG	TACCAGGCAG	TCTTTCAACT	СТАСТАААТА	GTGAGAGTTT	TGTGCATATA	1260
AGCCCGCCTT	GACCTGATTT	TTAAATTTTC	GAGTCTGAAA	TTGTAACTTA	GCTCTGTAAT	1320
ATTTTGGTTC	CTGCATTCCA	ATAGTTGGAC	GAATTTCATA	ATTTTCATAT	CCTGCAGGAG	1380
CAAATTTTTT	CAGCGCTTGA	TGAAGTAAGT	CCGTCTTGAA	CTCCAGCTGC	ттатсатаат	1440
GCAGGTGCAT	GATTTGGCAG	CCTCCGCATT	САТТАТАААТ	AGTACAAGAT	GGCACAATTC	1500
GAAATTTAGA	CTTCTTGTTG	ACCTTCAGTA	ATTTTGCTTC	AACAAAGTTG	CGTCTAATAG	1560
AAGTAATCTG	ACAATAGATA	TCTTCGCCTT	TGAGAGCTCC	TGGTACAAAG	ACTAATGTTT	1620
TTTGGTAAAA	GCCGATTCCC	TCACCGTTAA	TTCCCATGCG	CTTGATTTTT	AATGGTATTT	1680
TT						1682

(2) INFORMATION FOR SEQ ID NO: 242:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2524 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 242:

60	TTGATGTTTC	TGTCTAACCA	TCTGTAAGCA	AAAGTCATCC	TCAATTCTTT	TTAACTTTGG
120	CCAACTATTT	CTAAATCTTT	ACAGCTATAT	AATTCCGACT	TAAAATCACC	CCTTTATTGC
180	ATTTTCTTGC	CTAACAATTT	ATACCATCTG	TGATTGCAAA	CAAAATATCT	TTCAAATTTT
240	TTCATAAATC	TTCTAGACAT	CCATGAAATT	TGTACACTCT	CATTCATAAA	ACAATCGTTG
300	AGGATAGAAG	CACCTGCTAG	TGACTAGGAC	AGCGTGTATG	CATGGTATTT	AGTGTATTCA
360	ACTTTTCCCC	AATTACTTAA	AAATCTACTA	ACTGTGAATT	GGACACTTTT	TGAACATTTC
420	TGCTGCAACT	TAAGGACGCC	ATTAGATTCC	ATTATCATCA	CAATTTTCAT	CAAGAAAAGC
480	AATAATTTCT	ATTCATTTGG	GTATCATCAA	AATTGTTGGA	TTTCAGATAA	TGAGAAATTC
540	ATTGGTATCA	ACTTAAACAT	TAATTTTCCA	TTCTTTTACA	AACTGTATTT	AAACTTTCCA

			1264			
AAATTCTCTA	TTTCAATTTT	AACAATTCCT	ACATTCCTTG	CTTCTGTTAA	CATTCTACTA	600
ATAGAGGTTC	TATAAATTCC	TAATTTTGCT	GCTATTTGTG	ACTGATTTAA	GTTTTCAATA	660
TAATACAGAT	AAGCAATTTT	AGAAAGCAGT	TTATTCCTAT	CTTGATTCAT	ACACTTAACC	720
TCTTACGAAA	CTACCTTAAC	CATTATCCCA	GCATTTTCTA	ATGTAGCTAT	ATTTTGTTTA	780
GAAAGTTTTT	CGTCTGTTAT	TACTTCATAG	ACTTGACTTA	AAGCAAATCT	TCTTACTGTA	840
CCTCTTTTAT	CAAATTTACT	TGAGTCAGTT	AGGACAATGA	CTTTATCCGA	CACTGCTGAA	900
ATATATTGAA	CTACCTCACT	GCGCATTAAA	TCTTTTCCGG	TAAAGCCCAT	CTCTTTATCG	960
TAACCATCTG	TCCCAACAAA	AGCTTGACAC	ACATGAAAAG	TCTGTATCAT	ТТСТТТТААТ	1020
AAAGGTCCTA	CAGTCACCTG	TGAATCTTTC	TGAAACTCAC	CACCAAGAAC	AATAACACGA	1080
CATGAATCAT	AAGCTCTCAC	AAAATTTGCT	ATAAAAAACG	AATTTGTTAC	AATCGTAACA	1140
TTTCTTTTT	GCTTGCAAAT	TTCCTCAGCA	AGTAAAGCAC	AGGTCGATCC	AGATTCTATC	1200
ATTATTGTTT	CATTATCTGA	CACCAATTTT	ACTGCTTCCT	GAACAATTTT	TCTCTTAGTT	1260
ТСАТААТТАА	TTGACAAACG	TACATTTAAG	TCATCTCCAC	TATTTAATAC	AGCATATCCA	1320
TGCTCTCTGT	GTAATAAACC	TTTTGACTCT	AATTTATCTA	AATCTTTTCT	AATCGTTACT	1380
TTCGATACAT	TTAATTTTTC	CGATAATGTA	TTAACGTCGA	TCTTTTCATA	TTCTGATACT	1440
AATTTAATAA	TTTGTTCCAA	TCTTTTCATT	TTACACCTCC	GTTTTATTCT	АССААААТАА	1500
AAAGCAAAAA	ACAACAAATT	AACCTTTCGT	TCGTAATTGT	TTTTCTTTCG	TTTTTGTGAT	1560
AGGATAGACT	TATGAAGAGG	AGGAACTCTT	ATGGAAATAT	CTAAAGGAAT	TATTTTTAAT	1620
ATTCAACACT	TTTCAATTCA	TGACGGTCCG	GGTATTCGTA	CAACTGTTTT	TTTAAAAGGA	1680
TGTCCTCTGC	GCTGTCCATG	GTGTTCTAAT	CCTGAATCTC	AAAGAATGAA	ACCTGAAAAA	1740
ATGAAAGATG	CTCAACGAGA	GAAATTCACC	TTAGTCGGTG	AAGAAAAGAC	TGTAGAAGAA	1800
ATTATTACAG	AGGTATTAAA	AGACAAAGAA	TTTTACGAAG	AATCCGGTGG	AGGTTTAACT	1860
TTATCAGGAG	GTGAAATATT	TGCTCAGTTT	GAATTTGCTA	AAGCCATCTT	AAAATCAGCT	1920
AAAGAACATC	ACATACACAC	TGCCATTGAA	ACTACTGCCT	TTGTTGATCA	TGAAAAATTT	1980
ATTGATTTAA	TTCAATATGT	GGATTTTATC	TACACAGACC	TAAAACATTA	TAATTCTATA	2040
AAACATAAAA	AAGTGACTGG	GGTTTTTAAT	CAAATGATTA	TTAAAAACAT	TCATTATGCT	2100
ттттсасааа	ATAAAACTAT	CGTTTTAAGA	ATCCCAGTTA	TTCCTAATTT	TAACAATAGT	2160
TTAGAGGATG	CAGAAAAATT	CGCTACTCTA	TTTAACTCAT	TAAATATCGA	CCAAGTTCAA	2220
CTACTCCCTT	TTCATCAATT	TGGTGAAAAC	AAATATCGTT	TATTAAATCG	GAAATATGAA	2280
АТССАТССАА	TCAACGCACT	ТСАТСС WGAA	GATCTTATTG	АТТАТСАВАВ	CCTATTTCTC	2340

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AACG			•			2524
CAAACCTTTT	CTATTTTACC	TTGCTCTAGA	ATTTTTAAAC	TGCTATACTT	ATCACAAAAA	2520
ATAACAAGCA	TCTATAATAC	ATACTTAACT	TTTCAAAAGG	TTTAGCTAAA	AAATTTTAGC	2460
AACCACCATA	TTAATTGTTA	TTTCTAGTTT	ATTTCCTTGA	AATGCTCTAG	CTATTTGCAG	2400

(2) INFORMATION FOR SEQ ID NO: 243:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2359 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 243:

CGTGCTTGGG	GGCTTGTGGT	CAAAAGGAAA	GTCAGACAGG	AAAGGGGATG	AAAATTGTGA	60
CCAGTTTTTA	TCCTATCTAC	GCTATGGTTA	AGGAAGTATC	TGGTGACTTG	AATGATGTTC	120
GGATGATTCA	GTCAAGTAGT	GGTATTCACT	CCTTTGAACC	TTCGGCAAAT	GATATCGCAG	180
CCATCTATGA	TGCAGATGTC	TTTGTTTACC	ATTCTCATAC	ACTCGAATCT	TGGGCAGGAA	240
GTCTGGATCC	АААТСТАААА	AAATCCAAAG	TGAAGGTCTT	AGAGGCTTCT	GAGGGAATGA	300
CCTTGGAACG	TGTCCCTGGA	CTAGAGGATG	TGGAAGCAGG	GGATGGAGTT	GATGAAAAAA	360
CGCTCTATGA	CCCTCACACA	TGGCTAGATC	CTGAAAAAGC	TGGAGAAGAA	GCCCAAATTA	420
TCGCTGATAA	ACTTTCAGAG	GTGGATAGTG	AGCATAAAGA	GACTTATCAA	AAAAATGCGC	480
AAGCCTTTAT	CAAAAAAGCT	CAGGAATTGA	CTAAGAAATT	CCAACCAAAA	TTTGAAAAAG	540
CGACTCAGAA	AACATTTGTA	ACACAACATA	CAGCCTTTTC	TTATCTAGCG	AAGAGATTTG	600
GGCTTAATCA	ACTTGGTATT	GCAGGTATCT	CTCCTGAACA	AGAACCAAGT	CCACGACAAC	660
TAACAGAAAT	TCAGGAATTT	GTTAAGACCT	ATAAGGTTAA	AACGATTTTT	ACAGAAAGTA	720
ACGCTTCTTC	AAAAGTAGCT	GAAACTCTTG	TCAAATCAAC	AGGTGTGGGT	CTTAAAACTC	780
TGAATCCTTT	AGAGTCAGAC	CCACAAAATG	ACAAGACCTA	TTTAGAÄÄÄT	CTTGAAGAAA	840
ATATGAGTAT	TCTAGCAGAA	GAATTAAAGT	GAGGAAAGAA	TGAAAATTAA	ТАААААТАТ	900
CTAGCAGGTT	CAGTGGCAGT,	CCTTGCCCTA	AGTGTTTGTT	CCTATGAGCT	TGGACGTTAC	960
CAAGCTGGTC	AGGATAAGAA	AGAGTCTAAT	CGAGTTGCTT	ATATAGATGG	TGATCAGGCT	1020
GGTCAAAAGG	CAGAAAACTT	GACACCAGAT	GAAGTCAGTA	AGAGGGAGGG	GATCAACGCC	1080
GAACAAATTG	TTATCAAGAT	TACGGATCAA	GGTTATGTGA	CCTCTCATGG	AGACCATTAT	1140

CATTACTATA	ATGGCAAGGT	TCCTTATGAT	1266 GCCATCATCA	GTGAAGAGCT	CCTCATGAAA	1200
GATCCGAATT	ATCAGTTGAA	GGATTCAGAC	ATTGTCAATG	AAATCAAGGG	TGGTTATGTC	1260
ATTAAGGTAA	ACGGTAAATA	CTATGTTTAC	CTTAAGGATG	CAGCTCATGC	GGATAATATT	1320
CGGACAAAAG	Aagagattaa	ACGTCAGAAG	CAGGAACGCA	GTCATAATCA	TAACTCAAGA	1380
GCAGATAATG	CTGTTGCTGC	AGCCAGAGCC	CAAGGACGTT	ATACAACGGA	TGATGGGTAT	1440
ATCTTCAATG	CATCTGATAT	CATTGAGGAC	ACGGGTGATG	CTTATATCGT	TCCTCACGGC	1500
GACCATTACC	ATTACATTCC	TAAGAATGAG	TTATCAGCTA	GCGAGTTAGC	TGCTGCAGAA	1560
GCCTATTGGA	ATGGGAAGCA	GGGATCTCGT	CCTTCTTCAA	GTTCTAGTTA	TAATGCAAAT	1620
CCAGCTCAAC	CAAGATTGTC	AGAGAACCAC	AATCTGACTG	TCACTCCAAC	TTATCATCAA	1680
AATCAAGGGG	AAAACATTTC	AAGCCTTTTA	CGTGAATTGT	ATGCTAAACC	CTTATCAGAA	1740
CGCCATGTGG	AATCTGATGG	CCTTATTTTC	GACCCAGCGC	AAATCACAAG	TCGAACCGCC	1800
AGAGGTGTAG	CTGTCCCTCA	TGGTAACCAT	TACCACTTTA	TCCCTTATGA	ACAAATGTCT	1860
GAATTGGAAA	AACGAATTGC	TCGTATTATT	CCCCTTCGTT	ATCGTTCAAA	CCATTGGGTA	1920
CCAGATTCAA	GACCAGAAGA	ACCAAGTCCA	CAACCGACTC	CAGAACCTAG	TCCAAGTCCG	1980
CAACCAGCTC	CAAGCAATCC	AATTGATGAG	AAATTGGTCA	AAGAAGCTGT	TCGAAAAGTA	2040
GCGATGGTT	ATGTCTTTGA	GGAGAATGGA	GTTTCTCGTT	ATATCCCAGC	CAAGGATCTT	2100
rcagcagaaa	CAGCAGCAGG	CATTGATAGC	AAACTGGCCA	AGCAGGAAAG	ТТТАТСТСАТ	2160
AAGCTAGGAA	CTAAGAAAAC	TGACCTCCCA	TCTAGTGATC	GAGAATTTTA	CAATAAGGCT	2220
PATGACTTAC	TAGCAAGAAT	TCACCAAGAT	ТТАСТТ GАТА	ATAAAGGTCG	ACAAGTTGAT	2280
TTGAGGCTT	TGGATAACCT	GTTGGAACGA	CTCAAGGATG	TCTCAAGTGA	TAAAGTCAAG	2340
TAGTGGAAG	ATATTCTTG					2359
(2) INFORMA	TION FOR SE	Q ID NO: 24	4:			

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1052 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 244:

TTCTTTCTGC	TATAATCGTA	TAAAATACTT	ACTITAGGAG	TTCTTATGAA	AGTTGTTAAA	60
TTTGGAGGTA	GTTCTCTTGC	CTCTGCTAGT	CAATTAGAAA	AAGTTTTAAA	CATCGTCAAA	120
AGCGATTCAG	AGCGTCGTTT	TGTAGTCGTT	TCTGCGCCTG	GTAAACGCAA	TGCTGAAGAT	180

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ACTAAGGTTA	CGGATGCCCT	GATTAAATAC	TACCGCGACT	ATGTTGCGGG	TAACGATATT	240
AGCAAGAACC	AAAGCTGGAT	TATCGACCGC	TATGCTGCTA	TGGTTAGTGA	ATTGGGACTA	300
AAACCAGCTG	TGCTAGAAAA	AATTTCTAAA	AGCATTCACG	CCTTGGCCAC	TCTTCCTATT	. 360
GAAGAAAATG	AATTTCTCTA	CGATACTTTC	CTAGCAGCCG	GTGAAAATAA	CAATGCCAAA	420
TTGATTGCTG	CCTACTTTAA	CCAAAATGGT	ATCGATGCAC	GCTATATGCA	CCCTAGAGAA	480
GCTGGGATTG	TGGTCACAAG	TGAACCTGGT	CACGCTCGCA	TCATTCCATC	AAGTTATGAC	540
AAGATTGAAG	AATTGACAAA	CACCAATGAA	GTCCTTGTCA	TTCCTGGTTT	CTTTGGTGTC	600
ACTAAGGAAA	ATCAAATCTG	TACTTTCTCA	CGTGGAGGTT	CTGATATTAC	AGGTTCTATC	660
ATTGCTGCTG	GTGTCAAAGC	TGACCTCTAT	GAAAACTTTA	CGGACGTTGA	TGGTATCTTT	720
GCAGCCCACC	CTGGTATTAT	CCACCAACCA	CACTCGATTC	CTGAGTTGAC	CTACCGTGAA	780
ATGCGCGAGT	TGGCCTATGC	AGGCTTCTCA	GTCCTTCATG	ACGAGGCTCT	TCTTCCTGCC	840
TACCGTGGAA	AAATTCCTCT	GGTTATCAAG	AATACCAACA	ACCCTGACCA	TCCAGGTACT	900
CGTATCGTTC	TAAAACACAG	TAATGATGAA	TTTCCAGTTG	TGGGAATTGC	TGGTGACTCA	960
GGCTTTGTCA	GCATTAACAT	GTCGAAATAC	CTCATGAACC	GTGAGGTTGG	ATTTGGCCGC	1020
AAGGTTCTGC	AAATCCTGGA	AGAACTTAAC	AT			1052

(2) INFORMATION FOR SEQ ID NO: 245:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 855 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 245:

CCCTCGAAAA	CTAAGCCGAT	GAAGTCAGAA	CACTTCAATC	CTGTTCGTGA	CTGGTGGGAA	60
AATCGTGAAG	AGATTCTGGA	AGGTAAGTTC	ТАСАААТСТА	AATCATTTAC	ACCTAGTGAA	120
TTGGCTGAGT	TGAATTATAA	TTTAGACCAG	TGTGACTTTC	CAAAAGAGGA	AGAGGAAATC	180
TTAAATCCCT	TTGAGTTGAT	TCAGAATTAT	CAAGCGGAAA	GAGCAACTTT	AAATCATAAG	240
ATTGATAATG	TATTAGCTGA	TATTTTGCAG	TTGTTGGAGG	ACAAATAATG	ACACCAGAAC	300
AACTTAAAGC	AAGTATTCTC	CAAAGAGCGA	TGGAAGGGAA	ATTAGTGCCG	CAAAATCCCA	360
ATGACGAACC	TGCAAGTGAA	TTATTAAAGA	GAATTAAAGC	TGAAAAAGAA	AAACTTATCA	420
GTGAAGGAAA	AATCAAACGA	GATAAAAAGG	AAACTGAGAT	ATTTCGTGGT	GATGATGGGA	480

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AACATTATGG	GAAGTTTGCT	GATGGAAGCA	CTCAAGAAAT	TGATGTTCCT	TATGATATTC	540
CTGATACTTG	GGAGTGGGTG	AGGATAAAAT	CAATTTATTG	GAATTTTGGG	CAAAATAAGC	600
CAGAGAAATC	CTTTAGGTAT	ATAGATACGT	CTAGTATTGA	TAGAAAAAAG	AACATAATCA	660
ACTACAAAAA	TCTACAATAT	CTTTCACCTG	AACAAGCGCC	TTCCCGTGCT	AGAAAATTAG	720
TTTCGCAGAA	TAGTGTCTTA	TTTTCAACAG	TTAGACCATA	тстаааааат	ATTGCTGTAG	780
TTAGAGAACT	TAAAGAGTAT	TTGATAGCTA	GTACAGCATT	TAATGTTTTG	GGATACTTTA	840
CTTAACGAAA	CATAT		•	•		855
(2) INFORM	ATION FOR SI	3Q ID NO: 24	16:			
; 	(A) LENGTH: (B) TYPE: nu	NESS: doub	airs .			

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 246:

	ACATTTAGAT	60
	TGAATTTATT	120
	GAAAATTTTA	180
	TGATGGTGAC	240
	TAGAAAGAAG	300
•	AGAATCAATC	360
	ATGTTGGAAG	420
	TCTTTCTTGA	480
	TATGATTCTG	540
	GGTCGTAGAC	600
	TTTATCCTGG	660

(2) INFORMATION FOR SEQ ID NO: 247:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1805 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 247:

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CCGGTTGCAC	AGGATCGTGC	ATAGTCAACT	CTTCAAGTAT	AGCATATCTC	СТАТТТТСТТ	60
ACAAGTAATA	ACACCTAAAA	TGAAGCTTTT	TCTTTTACTT	TTTTCTGCCA	AGAGGCAAAA	120
AGCATGCTGA	GGTAAAAAAC	GCTCATCATA	ATAGGAACAC	CAAGAATGGT	CTTTTCATGA	180
TAGAAAATCG	TCAAATAGGC	TGAAAAGACA	ACGCCAAGGA	CAAAACTACT	AAGCAGGCTA	240
ACAAATATGA	ATCCTTCACG	CAAAAAAGGA	GTGTGCTTGG	TTCGGAAATA	ATCTCCAAAA	300
GCCAGCATGG	TCCGTTTGAT	ATTCCCTGTC	ATAAAAGCGT	TATTATAGGC	AATACCCGAC	360
ACTTCTCCAA	AAGCAGTTGT	CACCAGTCCC	ATACAGAAGG	CCAAGGGCGG	CACTAGATAG	420
ATATTATCCA	CAGTTTGCGG	CACAAAAGCA	ATAATGATTG	ATAAGATTGC	CAAGGGAATC	480
AAGGACAGAA	TAGGTTTTTT	CACAATTCTC	AATTTTTCCT	TATAAATCGT	TAATAAAAAG	540
ACTCCCATCA	TAAACGCTAG	CAAGGTGAGA	ACCTTGTCCC	TAACATCCGA	AACATTATTT	600
TTAATTAATT	CTACTGAAAG	AAAGACAACA	TTTCCAGTTT	GTCCAGCTAC	AAGGGTATTC	660
CCGCGAACAA	TAAAAGTGTA	AGCATCCACA	TATCCAGCAC	AAAACGTCAA	AAAAAGTGCT	720
AACCTTTTAG	ACTGACGTGA	TATTTTTCTT	ATAGGTAATA	ACCTCATTTT	ACCTCCCATT	780
GTATTTTCTC	TTAGAAATAT	TGTACCATTT	TCTTTCTAAA	AAATCGTAGG	CTACCATTTA	840
GATTTTACTA	TTAGCATAAA	AÁTAATAATA	GACAACTATT	TATCCAAAAA	TAGATAGATG	900
TAACATGTTT	GCAAACAAAG	CATACGAACC	TTTAGTAAAA	TCATTTCCAT	GAAACTAGAA	960
TAGAGCCCTC	TTAGCAAAAA	TCATTATTTT	AATTTATTTC	TAATCACTCC	TTGACATAAA	1020
TAACTCTCAC	CAATAAAAGA	CTATGTCTTA	AAAAAATGGT	TAAAAAAT	CAATACTTGG	1080
GCTTGATGGC	TATGCTACTA	ATAACAATTA	GGAGAGAAAA	TCAGGCACTT	GTTAACAACA	1140
AGGATTATCC	CCTTGAGATG	AAAGGAACTT	TAGAAATCTT	ATGATGAACA	TGCAAAACAT	1200
GATGCGTCAA	GCACAAAAAC	ТТСАААААСА	AATGGAACAA	AGCCAAGCTG	AACTTGCTGC	1260
TATGCAATTT	GTTGGCAAAT	CTGCTCAAGA	TCTTGTCCAA	GCGACCTTAA	CTGGCGATAA	1320
GAAAGTTGTC	AGCATTGATT	TCAATCCAGC	TGTCGTTGAC	CCAGAGGACC	TTGAGACTCT	1380
TTCTGATATG	ACCGTTCAAG	CCATCAACTC	TGCTCTTGAA	CAAATCGATG	AAACTACCAA	1440
GAAAAAACTG	GGTGCTTTCG	CTGGGAAATT	ACCTTTCTAA	AAACAAGGAG	CTAGAACAAT	1500
GCTTGTCGAT	AACAAAGGCT	AAGAAAGGTG	CAAAAATGAC	TCTATAATAT	TTGTAGTGGG	1560
TAAATCCCCT	ATGGATATTA	TGGAGCCTAT	TTTTGTGTAG	AAAAAAGTCC	CATATGACCT	1620
ATAATGAAAA	GCGACAAAAC	AACTCATTAG	AAAGAATCAT	ATGGAACAAT	TACATTTTAT	1680
САСААААТТА	CTAGACATTA	AAGACCCTAA	TATCCAGATT	TTAGACATCG	TCAATAAGGA	1740

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TACACACAAG GWAATCATCG CCAAACTGGr CTATGAAGCT CCATCTTGTC CTGAGTGCGG 1800
AAGTC 1805

(2) INFORMATION FOR SEQ ID NO: 248:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2516 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 248:

CTGCATCTAG TTTGTTTCTC CCTACAGTTT TAGCTAGACA GATTGGAGAT TATGATTTAA 60 CGTCGCCGCG TTGGGGTTCG GATACAACTA GTGAGCTTGA GAAAGAAAAC TCCTCTGCTG 120 GAATTAATAA TAATGACAGC ACTGGTGGCG GTAAAAGGTT AAATACCTCT ATTCGTAGCG 180 CCTATAGTGG GTCAGATATT ACCCCGGTAT ATTCATTGGG GTCTGGCTCT AGGATTGTCA 240 TGTACTATAA TGGAGGTGGT GACAATTATA TTGGTTCTGG TACTAGATTA GCTATGGCGC 300 CACAATTTGG AAATCATGTA AGAATTCATA CTTCAGGTTC TTGGAATCCA GATTCTTATT . 360 AACTTACTTG TCAGAGTAAG CCTTAAAGAT GGTTGATTGT GGGTGTAGCA TGAAAAAAGA 420 ATGCTACACC CTATTTTTAT TATAAGGAGG AGTAAGGATG GAATTTTTCA TTTGTAATCT 480 TGTACGAGTC GTTCAATCAC CTCGATTTTA TATGTCTTTA TTTTTGACCC TTCTTTGCAT 540 GAGTTTAGGA AATTTCCTTG CTTTCAATGG TATTTATAAA ATTGAAGGTT TATCGATTTT 600 TTTTGCCGCT TCTTCTATTC GAGGATTTTC ACCGATTAGC CTAGTAGCTG CACTTATCTG 660 TACACTGCCC TATTCTAGTC AGATAATAGA GGATGCTGAG AGTCATTTTC TAACAGCACA 720 ATTGTGTCGA ATTTCTAAAA AGAAGTATCT GGCTATTGTG GGTAGTACTG TAATTATTTC 780 TTCTTTTCTA GTCTTTTTC TCCCCTATTT ATTATTATTA GGAATTAATC TTTTAGTGAC 840 TCCTTATCAG GAAATTTATA TTGGAGATTA TAGTGGTGCC TTAAAAGAAT TATTTGATTC 900 CAATCAGTTT CTCTATAGTC TTGTAACGAC TCTCTGGTAT GGAGTTTGGG GCGCTGTGTT 960 CTCTATTTT GGACTAGCTA GTGCTTTGCT AGTGAAGAAA AAAATAGGAG CTATTTTCAT 1020 CCCAGTTGCC TATATGATGG TTGGTGGTAT TTTTTGGGCT ATTTTAGGGC TATCTTACTT 1080 AGAACCTGTG ACAACGCTAG CTTTGGGATA TCAGAAAGAT ATCAGTCTTT CCTTAGTTAG 1140 TGCTCATCTT GCTTTATTT TATTTGTTAG TTGTTTGGTT GTTTATGGTA CATTTTTTCT 1200 ACATTCAGAG GACTATGTAT AATGAAACAA TTTGTTCAAT TTTATAAAAA AGATTTCTTA 1260 GCAGTATTGG TTTATTTTAT ATTACTGCTA TCCTGTGTTT TATCTAGTAC AGTATATTTA 1320

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TTGCGCtGTC	GCCAATATTC	AATCCATCCA	AATGTATTAG	AATGGATCTT	AGTTTTACTT	1380
CAAGATATGA	CGACTGGAGT	ATATTGCTTT	CCGTTCACAT	ATATATTGTT	CTTTTTTTAT	1440
TTGATGAATA	ACTATTTTAA	TAGGTTGGAG	TGTCGCATTC	GTCTGAAATC	AATTAAGCAC	1500
TTTACCAGTT	TTAGTTTCAA	ATTAGCAGCT	CTTAGTACGG	GGATTTGGAC	GGCGACTTTA	1560
TTTTTATTGA	TTTTTCTAAT	TGCATTTAGT	AATGGTTTTA	GCTTCTCTTT	GGAGATAAAG	1620
GAGGTTGATT	TTTTAAGAGA	ATTTTATGGT	ATAAGTATTG	CAAACAATGC	TAGTTTCTTT	1680
ATAGGATTTT	TTTTCTCTTA	TATAGCATAC	TATTTCTTTT	TATCCTTACT	TACTATTAGC	1740
AGTTTTTCTT	GGTTTAAAAA	ATCAAACATG	AGCTTAGTAT	TTCTGTTTAC	TTTTTTTTTT	1800
GTAGAATCCT	TATTCTGGAT	TTATCAGTTG	GACAATGGGA	TAATTGGATT	ATTGCCAATT	1860
TTTCAGTATA	TGGTAAATTC	CAATCCGTAT	GCATTGATTT	ATTGGCTTAC	АТТАСТАТСТ	1920
ATCATAATTC	CATTGACTGT	ATTTTCTGTT	CATAGAAACT	GGAGGAGAGT	GTAAAAGTTG	1980
GAAATGGGAA	AGTTAAGTAG	TCACATGTGG	AGGTTGAATC	AGATAATCTA	TACCAAGTAC	2040
TTTTGGGGTT	ATGTTCTTTT	TTGGATATTG	ATTTGTTTAG	GATTATGGTA	TTGGTTAGAA	2100
GGAAATGATA	GACTTGTTAT	AGAAATTTTA	AAAGGCCTA	ATCTGAGTCA	AAACTCTTTT	2160
TTAGTCTTAT	CTATATGGTT	GCTTCATTGG	TTTATTATTC	ATACATTTTT	TCTAGCAGTT	2220
GTATATCGTA	GAAGAGCATC	CGATTTCTTT	ATGGAAGTGA	TTCGATTTTC	TTCTATTAAG	2280
CTCTGGATTA	GGTATCAGAT	TTGGACCTGT	TTTCTTTATG	GACTCATTTT	AATCATGGTA	2340
AAAGTTCTAG	TGATTCAATT	TATGTTACAG	TTACCAAACT	GGGATATAGG	AGTTTTGTTT	2400
ATAGTTGATT	CTTTGAATGC	TTGTGTGTTA	GTCTTGTTTT	GCTTTATGTT	ATACGCACTA	2460
GGAGCGAATG	TACAAATGAA	CTTTGCTTGC	GTTAGTTTCT	TTTTACTCAT	GATTGG	2516

(2) INFORMATION FOR SEQ ID NO: 249:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1364 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 249:

CGGTGTTTTT TTGTAAATTT TCTAGCACTT GTATGGTAAA ATAGATACAG GTGTTCATTA 60 AACTAGACTA AAAACCTATT TAAGCAGGCA AAATGAAGAA ATACCAACAA TTATTTAAGC 120 AAATCCAAGA AACCATTCAA AACGAGACTT ACGCTGTCGG AGATTTCCTT CCTAGCGAGC 180

			1272			
ACGACCTTAT	GGAGCAATAT	CAAGTGAGTC		CCGAAAGcCC	TGTCTCTCCT	240
CCAAGAGGAA	GGATTGATCA	AAAAGATAAG	AGGGCAAGGT	TCTCAAGTCG	TCAAAGAAGA	300
AACCGTCAAT	TTCCCTGTAT	CCAACCTAAC	CAGCTACCAA	GAACTAGTTA	AAGAACTTGG	360
ACTGCGCTCT	AAAACCAACG	TGGTCAGTCT	GGACAAGATT	ATTATTGATA	AAAAATCCTC	420
ACTGATAACC	GGTTTCCCAG	AGTTTCGGAT	GGTTTGGAAG	GTGGTCCGCC	AGCGTGTGGT	480
GGATGATCTG	GTATCCGTTC	TGGATACGGA	CTATCTGGAT	ATGGAACTCA	TCCCAAATCT	540
CACTCGCCAA	ATTGCTGAGC	AGTCTATCTA	TTCTTATATA	GAAAATGGCC	TCAAACTCCT	600
TATTGATTAT	GCTCAGAAGG	AAATCACCAT	TGACCACTCA	AGCGACCGAG	ACAAGATTCT	660
CATGGACATT	GGCAAAGACC	CTTATGTCGT	TTCGATTAAA	TCAAAAGTCT	ATCTCCAAGA	720
CGGACGCCAA	TTTCAGTTTA	CCGAAAGTCG	CCATAAGTTA	GAGAAATTTA	GATTTGTAGA	780
TTTTGCAAAA	CGCAAGAAAT	AAAAGACTGA	GACACCAGAT	CTCAGCCTTT	TTCGGCTCTA	840
TAATATTTGT	AGTGGGTAAC	CCCCCTATGG	ATATTATGGA	GCCTATTTTG	TGTAGAAAAA	900
AAGTCCCATA	TGACCTATAA	TGAAAAGCGA	CAAAACAACT	CATTAGAAAG	ATTCATATGG	960
AACAATTACA	TTTTATCACA	AAACTGCTCG	ATATTAAAGA	CCCAAACATC	AAGATTCTAG	1020
ACATCATCAA	TATGGATACC	CACAAAGAAA	TTATCGCTAA	GCTGGATTAT	GAGGCTCCAT	1080
CTTGCCCTGA	TTGTGGAAGT	CTAATGAAGA	AATATGACTT	TCAAAAACCG	TCTAAGATCC	1140
CTTACCTCGA	AACAACTGGT	ATGCCTACTA	GAATTCTCCT	TAGAAAGCGT	CGTTTCAAGT	1200
GCTATCATTG	TTCTAAAATG	ATGGTCGCTG	AAACTTCTAT	CGTCAAGAAG	AATCATCAAA	1260
TTCCTCGTAT	TATCAACCAA	AAAATTGCGC	AAAAGTTGAT	TGAGAAGATT	TCTATGACCG	1320
ATATTGCTCA	TCAGCTGGCC	ATTTCAACTT	CAACTGTCAT	TCGG		1364
(2) INFORM	ATION FOR SE	EQ ID NO: 25	50:			
	SQUENCE CHAR (A) LENGTH: (B) TYPE: nu (C) STRANDEL (D) TOPOLOGY	1227 base p ncleic acid NESS: doubl	pairs			
(xi) 5	SEQUENCE DES	CRIPTION: S	SEQ ID NO: 2	250:		

CCATGAAGAC CGCTTGGAAT TGGAATGGCA CAAGTCTTG TTGAATGGTC TATTCCCATT
GACAATCGGT GGAGGAATTG GACAATCTCG TATGGCCATG TTCCTACTTC GCAAGAGACA

CATCGGAGAA GTGCAAACAA GTGTTTGGCC TCAAGAAGTC CGCGATACTT ACGAAAATAT

TTTGTAGAGA ATCGAACCGC AAGGTTCGGT TTTCTTTCTC TTTTTGTCTA TAATTTGGTA

120

180

240

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TAI	ATAAACAG	TATGAAAATC	GTATCAGGAA	TCTATGGGGG	ACGTCCCCTC	AAGACACTAG	300
AAC	GGCAAGAC	GACAAGACCT	ACTTCGGATA	AGGTTAGGGG	AGCCATTTTT	AACATGATTG	360
GT(CCTACTT	TGAAGTGGGA	CGAGTCTTGG	ACCTTTATGC	AGGTAGTGGT	GGTTTATCTA	420
TCC	GAAGCAGT	ATCGCGTGGC	ATGTCCAGTG	CTGTTTTGGT	GGAGCGAGAC	CGTAAGCTCA	480
GAG	CATCGTG	GCTGAAAATA	TCCAGATGAC	CAAGGAAGTT	GGAAAATTTC	AACTCCTCAA	540
GA?	IGGATGCA	GAAAGGGCAT	TGGAACAGGT	ATCTGGGGAA	TTTGACCTCG	TTTTCTTAGA	600
CCC	CTCCCTAT	GCCAAGGAAC	AAATCGTAGC	AGATATTGAA	AAAATGGCTG	AGAGAGAGCT	660
TT?	PTTCTGAA	GATGTTATGG	TTGTGTGCGA	GACGGATAAA	GCCGTTGAAC	TTCCAGAAGA	720
AA!	FTGCCTGT	CTGGGTATCT	GGAAGGAAAA	GATTTATGGA	ATTAGTAAGG	TGACAGTCTA	780
TG?	ICAGATAA	GATTGGCTTA	TTCACAGGCT	CATTTGATCC	GATGACAAAT	GGGCATCTGG	840
AT/	ATCATTGA	ACGGGCGAGC	AGACTTTTTG	ATAAGCTTTA	TGTGGGTATT	TTTTTTAATC	900
cco	CACAAACA	AGGATTTCTC	CCTCTTGAAA	ATCGTAAACG	GGGGTTAGAA	AAGGCTGTGA	960
AAC	CATTTGGG	AAATGTTAAA	GTCGTGTCTT	CTCATGATAA	ATTGGTGGTC	GATGTCGCAA	1020
AA	AGACTGGG	GGCTACTTGC	CTAGTGCGAG	GTTTGAGAAA	TGCGTCGGAT	TTGCAATATG	1080
AAC	GCCAGTTT	TGATTACTAC	AATCATCAGC	TGTCTTCTGA	TATAGAGACT	ATTTATTTAC	1140
T A	AGTCGACC	TGAACATCTC	TATATCAGTT	CATCAGGCGT	TAGAGAGCTT	TTGAAGTTTG	1200
GTO	CAGGATAT	TGCCTGCTAT	CTTCCCG				1227

(2) INFORMATION FOR SEQ ID NO: 251:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 3652 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 251:

C	CGGTCAAGT	TAAAAACGCT	ATTTCTTCCC	ATTTTATTTA	TTTTTTAGGA	GTGGTAACGT,	60
P	TCAAAATAG	CCCAAGCGTT	CTCACCCGTG	TGAGTTTGAA	TAATGGAACC	CGTTTCCAAA	120
P	CAGAAATTG	GCTTTTCAAC	ATAAGCTTGT	AAGCTTTCTT	TCATCTCTTT	TGCCCAATCA	180
7	CACTACCAG	AATATGAAAT	TCCAATCTCT	GCTACAGCAC	GTTCAGAAAG	CGATGTTATC	240
P	ACTCATCTA	ACCATTTTT	AAATGTTTTA	GTTCCACGAC	CTTTAACCAT	TGGCTGCAAT	300
1	CATGGTCTT	TCATTTGCAT	GACAGCACGG	ATATTGAGAA	GAGAGCTCAA	CAAGCCAGTT	360

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ACACGGCTAA	TTCGTCCACC	TTTGACAAGA	TTTTCCAAAG	TTGAAACACC	AATATAAAGC	420
TCTGTATGGT	TTTTAACCTC	TTCTACATGA	GATAAAATTG	CCTCCATATC	TTTACCTTCT	480
TGAGCTAACT	TCGCAGCCTC	AACAACTTGG	AATTTCAGGG	CTTGGTCAGT	GAAGGAACTA	540
TCAACAACAG	TCACATCTGC	AGTAGATAGG	CTAGCACCTT	GGCGTGCTGC	TTCTACCGTA	600
CCCGAAAGAG	CATGGGACAT	ATGAATAGCA	AGAATCTGGC	CACCATCTTT	GCATAGGTCT	660
TCAAAAATCT	CAGCAAAGAC	ACCTACAGGT	GGCTGACTTG	TTTTCGGAAG	ATTCTTACTT	720
TCTTGCATCA	actgaagaaa	TTTACCTTCT	TCTTTCAAAT	CCGCATCAGA	ATAAACAACA	780
TTATCAATCA	TTACAGATAA	TGGAACAATT	GTAATATCTA	ATTGCTTTAC	TAGTTCAGGT	840
TCAATAGTAA	CAGATGAATC	GGTTACAATC	TTAATTTTTG	TCATAGTATC	AATCTTTCTA	900
TTTTAGGATT	CAGATTGGTT	TCCTTACTTC	ТААТТАТАТС	AAAAAAAAGA	TTAAAAATCC	960
TAATGGAGTC	AATCAAATTT	TCCGTAAAAT	TTGATATAAT	СААСТТАТАА	GAAAAGAGGT	1020
GTCCTATGAT	TTAAAAAAT	TACCCCATTT	TTACCATTTT	ACTAGGTGCT	GCTATTTATG	1080
CTTTTGGACT	GACTTATTTT	GTAGTTCCCC	ATCATCTCTT	TGAAGGAGGG	GCGACAGGCA	1140
TTACCCTCAT	CACCTTTTAT	CTTTTTAAAA	TCCCTGTTTC	CCTCATGAAC	CTGCTGATTA	1200
ATATTCCCCT	TTTCATCCTA	GCTTGGAAGA	TTTTTGGAGC	CAAATCCCTC	TATTCTAGTT	1260
TACTAGGAAC	CTTAGCTTTG	TCCGGCTGGT	TAGCTTTTTT	TGAGCATATT	CCCCTTCATA	1320
TTGATCTTCA	AGGTGATTTA	CTAATCACAG	CCCTTATAGC	GGGAATCCTA	TTGGGAATTG	1380
GCCTTGGAAT	TATTTTTAAT	GCTGGAGGTA	CAACTGGCGG	AACTGATATT	CTAGCTCGTA	1440
TTCTCAACAA	ATACACTCAT	ATATCCATAG	GAAAACTGCT	CTTTATCTTA	GATTTTTGTA	, 1500
TTCTCATGTT	GATTCTCCTA	ATCTTCAAGG	ATTTGAGATT	GGTTTCCTAC	ACGCTTTTGT	1560
TTGATTTTAT	TGTTTCTCGT	GTTATTGATT	TGATTGGTGA	AGGAGGATAT	GCCGGCAAAG	1620
GCTTTATGAT	TATCACAAAA	CGTCCTGACC	AACTTGCTAA	GGCGATTAAT	GATGACCTCG	1680
GAAGAGGTGT	TACTTTTATT	TCTGGTCAAG	GCTACTATAG	TAAAGAAAAT	TTGAAAATCA	1740
TCTACTGTAT	TGTCGGAAGA	AATGAAATTG	TGAAAACGAA	GGAAATGATT	CATCGAATCG	1800
ATCCTCAAGC	CTTTATAACT	ATTACAGAAG	CCCATGAAAT	CCTAGGAGAA	GGCTTCACCT	1860
TTGAAAAAGA	ataaaaagag	GTAATGTCGT	GACCTCAAAA	GTTAGACTAA	ATCATCTATC	1920
TTTTGGGTTA	CAGACAACCT	CTTTTTTATT	TTATTTACTC	AAGCTCTTAA	GACCAATTCC	1980
GAGTTACTTC	TTCATCAGCC	TTTAACTGAT	CCACTAATTG	GTCAACTGAG	TCAAATTTGG	2040
TCATATCTCG	AATGCGATCA	AGCCAATAAA	CCATGACGGT	TTCCCCATAA	ATATCTTGAT	2100
ТААААТСААА	AATATTGACT	TCAAAACGTG	CTTCTTCTCC	ATCAAAGGTC	ACATTTTTCC	2160

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CGACACTAGC	CATAGCACGA	TACTTCTGTC	TTTGAATCTC	AACATCAACA	ACATAAACGC	2220
CATCTGCTGG	CATATAAGTA	CGGTCTAAAA	GCACTAAATT	CGCTGTCGGA	TAACCAATTG	2280
TACGACCACG	AGCATTACCA	TGAACCACCA	TACCTCTTGA	TGGAAGCGGT	GCCCCAAAA	2340
G TTTTCC TGC	TTCTTTCACA	TTTCCATCTA	AAATAGCTTG	ACGGATACGA	GTTGAACTAA	2400
TCTTTCCTTT	CTCATCTTCT	ACAGGTGGAA	CAATGATAAC	TTCTCCATCA	AAGTAATTCT	2460
TTAAATCTTC	TGCTGTTTTT	TTGTCAGAAC	CAAATGTATA	ATCAAAACCT	GCAACAATAA	2520
PTTTGGCATT	CATAGCCTTG	ATATAAGTTG	CAAAGAATTC	TTGTGCAGTG	AGACTAGCGA	2580
ATTGACTACT	AAAATCAAGG	AGATATAATT	CTTCTACACC	TTCGCGCTTT	AATTTTCTTT	2640
CACGTTCAGC	AGGGTTCAAA	ATATGCAAAA	ACAAATCTGG	ATGATAAGGC	TCTAAAGCGA	2700
ICTTTGGAGA	TTCATTAAAG	GTCATAACGA	CGATAGGCAA	CAAATCCTTT	CTCGCAGCCT	2760
TGTTGGCAAC	ACGAAATAAT	TCTTGATGCC	CCTTATGTAT	GCCATCAAAA	TAGCCGAGAA	2820
CAACGACTGA	ATCAGATGGT	GTGCCAATAT	CTTTTTGGTT	TTTTATAGGA	ATAGTAATAA	2880
гсатаааата	ATTATATCAT	AGCGATAGCT	ATTTCTGGAA	CAGAAAATCT	GAAATGTTGT	2940
PTTTTTCACA	TGAAGTGTAC	CTGTTTTCAA	AAAGCACTTT	ATTCTATCGT	TGCTTAACTA	3000
rgaactttgc	AATATTCTTC	TCAAAAACTT	GTAGGACATC	TTCAAAATTT	TGCAAGGAGT	3060
GATTAGACTT	GTTCGGTAAC	CATAAAGTGT	CATACTATGC	TTATGTATGA	AAAAGCAATG	3120
CAACTAACTC	CTGAGAACTT	ТАААТТАСТА	ATTGGTGCCG	AAAAGGTAGA	ATTTAGAATC	3180
GAGGTACACC	TATGGCTGTA	AAATTTACAA	AATGAGACAA	CTTGGGCAAG	ATGTTTGAAG	3240
ААТТТССТАА	ACTCCCTGAT	TTGAAGCAAG	TCACTTTCCC	ТААТСАСААА	GAAAAAGCC	3300
AAAACAGCAA	AGAAAAACTA	GATGACTGCT	TTCCAACAAC	TCCCATCTAG	TGTGCTTCAG	3360
ACTGGGCTAT	TTTTCTCTCC	ATCTGTTAGC	TTGGATTCTC	AGACCGTTTC	AGCTAAAGAA	3420
PATCTTTTCC	CTTATCAGAA	GGAACGGCTC	AAGCCATTCA	GACAAGTGAA	GGGACGACAA	3480
SCCAATATTT	GAAACCAGAT	AGCAGTTCTT	ATAGTCAATT	GAAATAAAAT	CTGAAGAAAT	3540
GAGTAGGAA	ACTCATATCA	ATGTTTAACA	GTGTTCTATT	CCAGATTCAT	ACTCAATGAW	3600
ATTAAAGTG	CAAACTAGGA	AGTTAGCCGC	AGGTGATACT	TTGGGTACGG	CA	3652

(2) INFORMATION FOR SEQ ID NO: 252:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 743 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi)	SEQUENCE I	DESCRIPTION:	SEQ ID NO:	252:		
GTACCGTGGT	GCCAAAGT	AC AGCAAGGTTG	GCTTTTTGAC	AAACAATACC	AATCTTGGTT	60
ттасатсаа	GAAAATGGA	A ACTATGCTGA	TAAAGAATGG	ATTTTCGAGA	ATGGTCACTA	120
ТТАТТАТСТА	AAATCCGGT	G GCTACATGGC	AGCCAATGAA	TGGATTTGGG	ATAAGGAATC	180
TTGGTTTTAT	CTCAAATT	G ATGGGAAAAT	GGCTGAAAAA	GAATGGGTCT	ACGATTCTCA	240
TAGTCAAGCT	TGGTACTAC	T TCAAATCCGG	TGGTTACATG	ACAGCCAATG	AATGGATTTG	300
GGATAAGGAA	TCTTGGTTT	т атстсааатс	TGATGGGAAA	ATAGCTGAAA	AAGAATGGGT	360
CTACGATTCT	CATAGTCA	G CTTGGTACTA	CTTCAAATCC	GGTGGTTACA	TGACAGCCAA	420
TGAATGGATT	TGGGATAAG	G AATCTTGGTT	TTACCTCAAA	TCTGATGGGA	AAATAGCTGA	480
AAAAGAATGG	GTCTACGAT	T CTCATAGTCA	AGCTTGGTAC	TACTTCAAAT	CTGGTGGCTA	540
CATGGCGAAA	AATGAGACA	G TAGATGGTTA	TCAGCTTGGA	AGCGATGGTA	AATGGCTTGG	600
AGGAAAAACT	ACAAATGAA	A ATGCTGCTTA	CTATCAAGTA	GTGCCTGTTA	CAGCCAATGT	660
TTATGATTCA	GATGGTGAA	A AGCTTTCCTA	TATATCGCAA	AGTAGTGTCG	TATGGCTAGA	720
TAAGGATAGA	AAAAGTGAT	G ACA				743
(2) INFORM	ATION FOR	SEQ ID NO: 2	53:			
(i) S	(A) LENGTH (B) TYPE: (C) STRAND	IARACTERISTIC: 1: 4010 base p nucleic acid DEDNESS: doub GY: linear	pairs			

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 253:

TTTTGGTTGA	TGATACGAGG	GATTTGGTGA	TTCTTCTTGA	CGATAGAAGT	TTCAGCGACC	. 60
ATCATTTTTG	AACAGTGATA	GCACTTGAAT	CGACGCTTTC	TAAGGAGAAT	TCTAGTAGGC	120
ATACCAGTCG	TTTCAAGATA	AGGAATTTTA	GAAGGTTTTT	GAAAGTCATA	TTTCTTCAAT	180
TGGTTTCCGC	ACTCAGGGCA	AGATGGGGCG	TCGTAGTCCA	GTTTGGCGAT	GATTTCCTTG	240
TGTGTATCCT	TATTGATGAT	GTCTAAAATC	TGGATATTAG	GGTCTTTAAT	GTCTAGTAAT	300
TTTGTGATAA	AATGTAATTG	TTCCATATGA	TTCTTTCTAA	TGAGTTGTTT	TGTCGCTTTT	360
CATTATAGGT	CATATGGGAC	TTTTTTTCTA	СААТААААТА	GGCTCCATAA	TATCTATAGT	420
GGATTTACCC	АСТАСАААТА	TTATAGAACC	GAATTAATTT	AATTAGAGAG	CCAACTTTCT	480
aatatagtaa	TCGCGTCATA	ACAAGGTATC	TATCATTCAŢ	GGAGTTCCTC	CTGTATACTA	540

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TTAGTAAAGT	AAAACTATTG	GAGGATATTT	TAATGCCACA	ACCTATTGTT	CCTGTAGAGA	. 600
TTCCACAATC	TCGTCGTTTT	GATTCTAAAA	AGAGAAATGA	TATTCTGCTT	AAAATTCGTA	660
TTGGCAAGCT	TGAAGTAAGT	TTTTTTCAAT	CTCTCAATCT	CGAAATGGTA	GAACAGCTTT	720
TGGATAAAGT	GTTGCTCTAT	GACAATTCAT	CTATCTAGCC	TAGGGCAGGT	CTATCTCGTA	780
TGTGGGAAAA	CGGATATGAG	GCAAGGCATT	GATTCATTGG	CTTATCTGGT	TAAAACCCAC	840
TTTGAATTAG	ATCCTTTCTC	CGGTCAAGTT	TTTCTCTTTT	GTGGTGGACG	TAAAGACCGC	900
TTTAAAGCCC	TTTACTGGGA	TGGTCAAGGA	TTTTGGCTAC	TATATAAACG	CTTTGAGAAC	960
GGAAAACTGA	CTTGGCCCAG	TACAGAAAAG	GATGTCAAAG	CTCTCACACC	TGAACAAGTA	1020
GATTGGCTTA	TGAAGGCTT	TTCTATCACT	ССАААААТАА	ATTTATCAGA	AAGTCGTGAT	1080
TTCTATTGAA	ATGAGGACTT	TCTTTTTAGT	TATAATAAAG	TTAGGAAATA	AGGAGAGGAA	1140
GCCCATGGAA	GAAGATTGAA	AATCATTCAA	CAACAGAGTG	CTACAATTGA	TAGTCTCACC	1200
AATGAACTTG	CCCTTCTTCG	TGAACAAGTG	GCTTATCTAA	CGCAAAAGCT	CTATGGAAAA	1260
TCCTCTGAGA	AAAGTGTTTG	CCCATCTGGA	CAACTCAGTC	TTTTTGAAGA	GGAACAAAAT	1320
ATGGAAGAAG	ACTCTGACTT	ACCCAGTTGA	AAGAGAAGAA	ATCACCTATA	AACGTAAGAA	1380
AGCTAAAGGG	AAACGTCAAG	CTCTTCTTGC	CCAATTTGAT	TCAGAAGAAG	TTCATCATCA	1440
AGTAGAAGAG	AGCATTTGCC	CTGATTGTCA	GGGAGATCTA	AAAGAGATTG	GAGCAACCCT	1500
TCAACGACAA	GAATTAGTCT	TTATTCCTGC	GCAATTAAAA	CGAATAGATC	ATATCCAACA	1560
CGCTTATAAG	TGCCAAGCAT	GCAGTGATAA	AAATCCGAGT	GATAAAATCG	TGAAAGCTCC	1620
ТАТТССТААА	GCCCCTTTGG	CCCATAGCCT	TGGCTCAGCT	TCTATTATCG	CTCACACCAT	1680
CCATCAGAAG	TTTAATCTGA	AGGTACCCAA	TTATCGCCAA	GAAGAAGATT	GGGCTAAGAT	1740
GGGTTTACCA	ATCACACGTA	AGGAAATTGC	TAATTGGCAT	ATCAAGGCGA	GTCAATACTA	1800
TTTGGAGCCC	CTTTATAATC	TTTTACGAGA	AAAGTTGTTA	GAACAAGCTC	TTCTTCATGC	1860
GGATGAAACC	TCTTATCGGG	TTCTAGAGAG	TGATAGTCAG	TTGCCTTACT	ATTGGACTTT	1920
TTTGTCTGGĞ	AAAGCTGAGA	ATCAAGCAAT	CACGCTGTAC	CACCATGATC	AGCGTCGGAG	1980
TGGTTTAGTA	GTACAAGAAT	TCCTAGGAGA	TTATTCTGGC	TATGTTCATT	GTGACATGTT	2040
GCGGCAGTAA	CTTAGGACTT	TAGTCCTCTA	GTTCTGCCTA	TGCGATAGCA	GTCCAAGGTT	2100
TAGGAGTAAG	GCGACGCTAA	GCTTGGTAAA	CTGCGAACAG	CTAGAAGCTT	ATCGTCAACT	2160
GGAAGAAGCT	GCACTTGTTG	GATGTTGGGC	GCATGTGAGA	AGGAAGTTTT	TTGAAGTGCC	2220
CCCCAAGCAA	GCAGATAAAT	CATCCTTAGG	AGCTAAAGGT	TTAGCTTATT	GTGATCAGTT	2280

ATTTTCCTTG	GAAAGAGACT	GGGAGGCTTT	1278 GCCAGCTGAT	GAACGACTAC	AGAAACGTCA	2340
AGAACATCTC	CAGCCCCTAA	TGGAAGACTT	CTTTGCTTGG	TGCCGCCGTC	AGTCAGTTTT	2400
AGCAGGTTCA	AAACTAGGAA	GGGCAATTGA	ATACAGCCTC	AAGTATGAAG	AAACCTTTAA	2460
GACTATTTTG	AAAGACGGAC	ATCTGGTCCT	TTCCAATAAT	CTAGCTGAAC	GCGCCATTAA	2520
ATCATTGGTT	ATGGGACGGA	GTAAAAGAGT	CCAGTGGACT	CTTTTAGCCT	GAGCTCAGTT	. 2580
TAAAAAAGCG	AGGGTGGTTA	TTTTCTCAAA	GTTTTGAAGG	AGCTAAAGCA	AGAGCTATTG	2640
TTATGAGCTT	GTTGGAAACA	GCTAAACGTC	ATCAATTATA	GTGCGTTGAA	TCTATAACAG	2700
TACGCATCGA	CTGCTAAAAC	ATTTCTATAA	ATCAATTTTC	CTTTCCTAAT	CGATTTGTTC	2760
АТАТСТТ АТТ	TCAATCCATT	ATAAATAGCG	AGAAATATCT	ATCCTATCTT	CTAGAATGTC	2820
TTCCAAACGA	GGAAACTCTC	GTAAACAAAG	AGGTTTTAGA	GGCCTATTTA	CCGTGGACTA	2880
AAGTTGTACA	AGAAAAGTGC	AAATAAGAAA	TCTCCAGATT	AGGAACTATC	CGTGAGTTCT	2940
CTAGTCTGGA	GATTTTTCAA	TAGACTTCGT	TATTGGACGG	TTACAATTTA	TTATATGAAA	3000
ATCCCATATT	ATTCTCCAAT	TCTATATTTT	ACCTTTCTAA	ATGTATAGAT	таастасста	3060
ATTATAGCAT	ATAACGCAGA	TTCCTTTCAA	TCGTATGATT	TACTGCATTA	AATTAAGTAA	3120
AAAAATAAAG	GCAGTCCGAA	GACTGCCGAT	ATTTATCTCT	CATCTCTTTA	ATTATGGTAA	3180
GTAAATAAAT	AATTTCCCTA	AAGATATGGA	AATTATTAAT	ACTATAAATA	CATATTATAA	3240
AGTTTATAAA	TACTGTAAAA	ATCCTGAAGT	TAATTTTCTA	ATAAATATCA	ATATGTGTTA	3300
GTATCTTTTA	AATTTTTAGA	CAATTTACTA	GTTCTATAGA	CATGTTTAAC	AGACTCTATT	3360
TTACAATTCA	AAAATTTCAT	CTGCCACTTC	ATTTAAAAAT	TCTATATCAT	GGGAAACAAT	3420
ТТАТТАААА	TTATCCATGG	TTTTATACTT	ATTAATCAGT	TCAGATATTT	TTATCATATT	3480
GGAATAATCC	ATACCACTTG	AAGGTTCGTC	AAAAAAGACA	AATGGAGAAT	TCTTGCACAT	3540
AACAGATGCT	ATTGCAAGCC	TTTGCTTTTG	CCCTCCTGAT	AAACTCATCG	GATGCCTTTC	3600
AATAAATTCG	TCCAGGCATA	AATCTTTTAA	CCCAAATCAT	TCATACCTCT	CTCAACTAGA	3660
TGTAACTTAC	AAAACCCCTG	ACCTCATGAG	CCACTTTCTT	CCTCCTCATG	AGGTCAGTTT	3720
TACTTTCTGC	TGTTCCAGTA	TCGTTTTTCC	TCGCTAGATT	TCCTCAAAAG	GGCAGACTCC	3780
TCCCTTGGTT	CGTCACACGA	TTTTTTCATC	TCGACTGTTC	TTTAATGCAT	CATTAACGAC	3840
GCTTTTCTTC	TAGGTGGTTC	ATAAGGAACA	GGAAGATTCA	GGTTGACTTT	TCŤAATCCTA	3900
GAATAAAGTG	CTGAAAACAA	TTCGGAATAG	GCATAGAGAC	TAGACAATTT	GAGGAGCTGC	3960
TTGCGTCCTG	TTCGAACACA	TTTTCCCACC	ACGTGAAGAA	AAAGATGGCG		4010
(2) INFORMA	ATION FOR SE	EQ ID NO: 25	54:			

WO 98/18931

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(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2789 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 254:

ATGCATCCGT	TTGTCAAGCC	TAAATTGTAA	TTTTTTTCAA	TTTAAAACAG	AAAAACCCAG	60
GAAAATGACA	TAAAAATATC	ATTCCTAGGC	CTATTTATGC	TATTTCTCTC	TGAAAAATAT	120
GAGTATTCAG	TCGGTCAAAT	GAAGCTGAAC	GAACTCATTT	TCCCTCGCCT	AATTCAATGA	180
TTCGATGACA	TTGTTGGGCT	ACATAAGCAT	CGTGGGTCAC	GATAATGACT	GTTTTCCCCT	240
CTCGATTCAT	CTCTAAGAGA	AACTTCAAGA	CCAAATCTCT	ATTTTCAGGA	TCCAGAGAAC	300
CTGTCGGTTC	ATCGCCTAAA	ATCAGCTGGC	TGGGTTTTAA	GATGGCTCTA	GCAACTGCAA	360
TTCGTTGTTG	TTCGCCCCCA	GACAACTCGG	AGACCCTTTG	ATGCAAAGTA	GCTGATAAAC	420
CTACTCTCTC	TAAAATCTCT	TCCACCTTTT	TGAGCTTGTC	TTTCTTAGGC	AATTTCACAT	480
ATTTCAGCGC	CACATGAGAT	TGTACTCGAC	CGTTTCATCA	TCAATCAGGG	CAAAATTTTG	540
AAACAGATAA	GAGATATGTT	CACGGATTAT	TGTTTGCGAC	TTAGCAGAAT	TAACCGCTAG	600
ATTTGTCTGA	CCAAAAATCT	CATACCGTCC	GCTATAATCA	CCATCTATCA	AACCCAATAA	660
ATTTAACAAG	GTCGACTTCC	CACTACCACT	CTTACCAACA	ATAGCTACCA	AATCCCCCTG	720
ATCAATCCTG	AGAGATAAGT	TATCCAAAAT	CACTTTTCCC	CCAATGGTTT	TGGTAATATT	780
TTTCAACTCA	ATCATAAGAT	GCCCCCTTTC	AATAACTCTA	CTAGACTTCT	TTTCTCCATC	840
CTAGAAGCTA	AGCCTAGCAC	AAATAGTATA	TCCAGACATG	TAAAACCTGC	AAACAGTAGA	900
AGTGGTAAGA	ACGCATGGGC	AAAGAAAATC	AAGACTAGAA	GAGGGAAACT	ATAGCCCAGC	960
AAGAGCAGAA	CGAGGAGAGG	ACGGTAGCGA	TCGACCAGTT	TCCACCCCAT	AAACTTCTTG	1020
GTAATGATAT	CCCTGCGCTT	CAATAAGAAA	GTTGTTACTA	GTAAGAAGTA	GGAAATCATC	1080
ATGCTAAGGA	GACCAAACAA	AGCAAAGAGT	AGGTTAAAAT	TCCGAACAGC	ATCTCGATAA	1140.
GAATCCACTT	TCTCTTGTTG	AATGGCTTGA	ATAGATGAAA	ATTTTAAATA	ATTTCCATCT	1200
GACAATTTCT	CAACTAACTC	TGTAATCTCT	TTTTGATGTT	GAACCGTATT	TTCAATTTTA	1260
ATCGGATTAT	TTAAGCCAGT	TGTTGACAGG	GAGGCTTTCT	CATCCCACAT	CATATCAGAA	1320
TCATTGACCA	AGCTAATAAT	TGGATTGGAG	AGATTTTCCT	TTCGCTTATC	ACTATATGGG	1380
AAAAATGACC	AATCTCCTTC	ATAATAGGCA	ATCTCGACAT	CCATCTCCTC	TATCGTTCGT	1440

TTTGCTGC	т сттсатастт	CATCGAATGA	1280 AAGGCAATTA	ACTTCCCCAA	GAGCTGATTT	1500
PTATCTTCT	T CACCTTTCGT	ACTTGCTGGC	АТСААААТАА	CTTTTTTAAT	ACCGGTATTT	1560
GGTAGCTTG	A ATCCCTTGCT	CTTTAGAAAA	TTGCGATTGG	CATAGTAAAC	ATCCACCGTA	1620
PCTGTTAAC	T GATATTGCTG	AATCTGTTCT	GATTGGACAA	AATTTTTTAC	AGGAAGACTG	1680
CTACTCTGC	A CATAGCCCGC	CTGCGTTTTT	TCTACCAAAT	CCTGATAAAA	TCGATAGAAA	1740
PAATCTGTA	G ATTTCCCTGA	CCCTGCTAGC	TCTTCTTGCC	ACAGATTATC	ATTGAGTTTG	1800
AAGGTTTC T	A AGGTCAGGTA	ATTACCTTGA	CTTACCCACT	GTTGCTGATA	AGCAAGTTCT	1860
PTGTTTTCT	T GTTCTAAACT	TCTGCCCACC	CCAATCAGTA	AGGCCGTCAG	TAAAATAGTT	1920
STCCCTATT	т тсатсасата	ATTGAAGATA	AGACCAAATT	TGAAAGATGA	AAAACCTTTC	1980
AGCAGAGAG	C TGATTGTCAT	TTTTTGGATT	AAGAGGTAAG	TCAACCAACT	GATAAAGAGA	2040
PAAAGCTGC	A ACAGCAAAAA	ATGAGACAAC	CACAGCATAG	GAAACAAATC	TTTTGGCTTA	2100
FAATCAAGC	A AGAAAAACAC	GCCTAGATTG	ATCACAAGAG	CCCCACCTAG	GAGGAGGTAA	2160
AGGTTGCCT	T TTACAACATC	AGCTAAAACA	GCCCTATCTT	GAAAACCAAG	TAATTTTTGT	2220
ACCCCAACT	C TTTTCATCTC	CATCATCGGT	TGATACACTG	TCACTAACAC	AAGAAGCAAA	2280
ATAGCCAAG	а саалаасаат	GGCAGATAAA	AGCAAATCTC	GATTTATGAC	TTCCACTGCA	2340
TTTTGTAG	G TCGGCTCTAG	CAAGGTAGCC	TGGTCTATCT	TGAAAAAATC	GCTCCATTTC	2400
rgtacaatc	C TATCCTTGTC	CATCTCTTGT	GTAGAAGTTA	TCGTATAGCG	ACCATTTAAA	2460
TACGAGAT	G TATCCTTGAT	ATAGGTTTGA	AAAGTCATAA	GCTGAATAGG	TTTGGCTTTT	2520
GAAAGGTC	G GAATCGTACC	AAGTTTATTG	GAAATTTCTT	TATTACTATA	GACTCCTTCA	2580
CATCTGTG	G TAAAATCAAG	AGAAGAAATC	CCAAACTCTT	GGTAGGGGAA	GGTATCTTTA	2640
CAAAAACA	C CAGACTTGAC	CACCTCATCA	CCACTGTCTG	TTTTGATGAT	GGAGACTTTA	2700
PACTCCTTT	G ATACATCCTC	AAAAAATCGA	AGAACAGACG	CTGCAGGTTC	GTTAATATCT	2760
CATAAATAC	A AATCCAAAGA	ATCTACAGG				2789

(2) INFORMATION FOR SEQ ID NO: 255:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2495 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 255:

CTGCGAATTT TATTAAAGAT AATGTGTTAA TTACAGCGGC TCACAACTAC TACAGACATG

60

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actatgggai	A AGAAGCGGAT	GATATTTATG	TTCTTCCGGC	TGTTAGTCCA	AGTCAAGAAC	120
CATTTGGAA	A GATCAAAGTA	AAGGAAGTTC	GTTATTTGAA	GGAATTTAGA	AATTTAAATT	180
CTAAGGATG	AAGGGAATAT	GACTTGGCTT	TATTAATTCT	AGAAGAGCCC	ATTGGTGCAA	240
aat taggga	TTTGGGTCTT	CCTACTAGTC	AAAAAAATTT	GACAGGAATA	ACTGTGACTA	300
TCACAGGCT	ТССАТСАТАТ	AATTTTAAAA	TTCATCAAAT	GTATACAGAT	AAGAAACAAG	360
TTTTAAGTG/	A TGATGGCATG	TTCTTGGATT	ACCAAGTTGA	TACTTTAGAG	GGGTCTAGTG	420
GATCTACAG	TTATGATGCT	AGTCACCGTG	TAGTAGGAGT	GCATACTTTA	GGAGATGGAG	480
CTAATCAAA	TAACAGTGCA	GTTAAATTAA	ATGAACGAAA	TTTGCCATTT	ATTTAWTCGG	540
TTCTTAAAG	TTACTCTCTT	GAAGGATGGA	AGAAAATAAA	TGGTAGTTGG	TACCATTATA	600
GACAACATGA	TAAACAAACG	GGTTGGCAGG	AGATAAATGA	TACCTGGTAT	TATTTAGACA	660
GTTCCGGTA	A GATGCTTACA	GATTGGCAAA	AAGTCCATGG	AAAATGGTAT	TATCTCAATT	720
CAAATGGAG	CAATGGTTACA	GGTAGCCAAA	CTATCGATGG	TAAAGTTTAT	AACTTCGCTT	780
Catctggtgi	A GTGGATTTAA	TGTTGGAGGA	TATATAAAAT	GAAGCTTTTG	AAAAAAATGA	840
TGCAAATCG	CACTAGCCACA	TTTTTCTTCG	GTTTGTTAGC	GACAAATACA	GTATTTGCAG	900
ATGATTCTG/	A AGGATGGCAG	TTTGTCCAAG	AAAATGGTAG	AACCTACTAC	AAAAAGGGGG	960
ATCTAAAAG	AACCTACTGG	AGAGTGATAG	ATGGGAAGTA	CTATTATTTT	GATCCTTTAT	1020
CCGGAGAGAT	GGTTGTCGGC	TGGCAATATA	TACCTGCTCC	ACACAAGGGG	GTTACGATTG	1080
GTCCTTCTCC	AAGAATAGAG	ATTGCTCTTA	GACCAGATTG	GTTTTATTTT	GGTCAAGATG	1140
GTGTATTAC	AGAATTTGTT	GGCAAGCAAG	TTTTAGAAGC	AAAAACTGCT	ACGAATACCA	1200
ACAAACATCA	TGGGGAAGAA	TATGATAGCC	AAGCAGAGAA	ACGAGTCTAT	TATTTTGAAG	1260
ATCAGCGTAC	TTATCATACT	TTAAAAACTG	GTTGGATTTA	TGAAGAGGGT	CATTGGTATT	1320
ATTTACAGAA	GGATGGTGGC	TTTGATTCGC	GCATCAACAG	ATTGACGGTT	GGAGAGCTAG	1380
CACGTGGTTC	GGTTAAGGAT	TACCCTCTTA	CGTATGATGA	AGAGAAGCTA	AAAGCAGCTC	1440
CATGGTACTA	TCTAAATCCA	GCAACTGGCA	TTATGCAAAC	AGGTTGGCAA	TATCTAGGTA	1500
ATAGATGGTA	CTACCTCCAT	TCGTCAGGAG	CTATGGCAAC	TGGCTGGTAT	AAGGAAGGCT	1560
Caacttggt/	CTATCTAGAT	GCTGAAAATG	GTGATATGAG	AACTGGCTGG	CAAAACCTTG	1620
GGAACAAATO	GTACTATCTC	CGTTCATCAG	GAGCTATGGC	AACTGGTTGG	TATCAGGAAA	1680
GTTCGACTTC	GTACTATCTA	AATGCAAGTA	ATGGAGATAT	GAAAACAGGC	TGGTTCCAAG	1740
PCAATGGTAA	CTGGTACTAT	GCCTATGATT	CAGGTGCTTT	AGCTGTTAAT	ACCACAGTAG	1800

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GIGGI	racta	CITAAACTAT	AATGGTGAAT	GGGTTAAGTA	ATGAAGGCTA	ATTGTAAACT	1860
GTGATC	GATA	CTTAACTTTG	TATAATAGGT	GGATAAAAGT	CTTCACAATC	AAAAAACGCA	1920
TAGTAT	CAAG	GTTTTTCTGT	ACTGCCCTCA	AACAGTTAGA	CAATTAATTT	ATCCGAAGgA	1980
TTTAGT	TCTG	TATTGCACAG	GGCTAAGTCC	TTTTAGTTTT	ACCTTAATTC	GTTTATTGTT	2040
GTAGTA	ATCA	ATATAGTCTA	TAATGGCTTG	TTCCAATTGC	TTAAGCGACT	GAAACGACTT	2100
CTCATA	ACCG	TAAAACATTT	CCGATTTCAG	AATCCCAAAG	AAGGACTCCA	TCATACTATT	2160
GTCTGC	GCTG	TTTCCCTTAC	GTGACATGGA	TGCTTGAATT	CCCTTACTCT	CTAGGAACCG	2220
ATGATA	AAGAA	TCGTGTTGGT	ATTGCCAGCC	TTGGTCACTA	TGGAGAATCG	TATTCTCGTA	2280
GTGCT1	CTCT	GTGAATGCCT	GTTCCAACAT	TGTTTGTACT	TGTTCTAAGT	TGGGTGAAGT	2340
TGAAAC	ATTA	TAGGCGATAA	TTTCGCTATT	AAAGCCATCT	AAAACTGGTG	ATAAGTAAAG	2400
CTTTTC	SAGTA	CTTGCTGGAA	TGGCAAATTC	TGTCACATCT	GTGTAGCACT	TTTCCATTGT	2460
TTTAGA	GCCT	TCAAATTGGC	CTTGAATGAG	ATTCG			2495
(2) IN	IFORM/	ATION FOR SE	EQ ID NO: 25	56:			

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 870 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 256:

TACCACCGTA TTCATCCAGC AAGATTGCCA TTTGTCTTTG GGTATTTCGC AGTTCTTTTA 60 GCAAGTCATC CACAAAAATA GTTTCAGGTA CAAAAAGTGG ATCTTGTAAA ATTCTCTTCC 120 AAACAATATT GTCAAAACCG TCCACAAAGC CTGCCTTAAG GAGACTCTTG GTGTGAATGA 180 TTCCAATTAC ATTGTCCTTA TCCCCATCAT AAACCGGGAT ACGAGAATAA TTTTGTTTTA 240 AAATACTTTG GATAATGGCT TGACTATCAT CCTGAATATC CACCATAAAG GCATCCGTTC 300 GAGGAACCAT AACCTCTCGT GCCATCAGTT CATCGAGCGA AAAGACACCT TGTAGCATCT 360 CAATCTCATC AGCATCCAAT GTTTCTTCAC TATTTGTCAG CATATAGGCA ATTTCATCAC 420 GGGTCATCTT TTCATCCGCA TCATCGAATG ACATAGGAGT CAAATGGCTC AAGAAATTGG 480 TCGAAGCAGC TAAAAGCCAA ACAAAAGGAC TGACTAGTTT TCCGATCCCA ATGATAATCG 540 GCGCTGTACG AATTGCCAAG GCATCCTTTA GATTAAGAGC GATTCTCTTA GGATATAATT 600 CCCCAAAAAC GATGGAAATA TAGGTCAAAA ATGCCAAGGA TAGAAAAGTT GCCACGGCTT 660 GTGCTGTTTC GCCATTCCCA AGCCAAGAGG CAATCACACG TCCTAGAGTA TCAGTTAAAC 720

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TCGCCCCTGA	TAAGATTGTA	ATCAGGGTGA	TTCCTACCTG	GATGGTTGAT	AAAAAGTGGT	780		
TAGGATTTTC	TAGTACCTTC	AGCAGGCGGA	TGTAGCGTCT	GTCTCCTTCT	TCCGCCTTTT	840		
GTTCAACTCG	GTTCAACTCG GGCACGATTA AGAGAAACGG							
(2) INFORM	ATION FOR SE	EO ID NO: 25	57:		•			

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1245 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 257:

CGTTCCCAGA	AGCCCGCATT	CTCATCGCCA	ATGTCGTGAT	TGATTTGGCC	CTTTCTCCAA	60
AATCCAACTC	AGCCTATGTA	GCTATGGATA	AGGCACTTGC	TGACCTCAAA	ACATCAGGGC	120
ACTTGCCTAT	TCCGCGACAC	CTGCGTGATG	GGCACTACAG	TGGAAGCAAG	GAACTGGGGA	180
ATGCCCAAGA	СТАТСТСТАТ	CCACACAACT	ATCCTGGAAA	TTGGGTCAAG	CAAGACTATC	240
TGCCAGAAAA	AATTCGTAAT	CATCACTATT	TCCAAGCAGA	AGATACTGGT	AAATATGAAC	300
GGGCTTTGGC	TCAAAGAAAG	GAAGCTATCG	ACCGTTTGCG	AAAAATCTGA	AATCCTTTTC	360
AAAAAATTGC	ACTTTCCTCT	TGATTTTTTT	TGAAAAAGTG	GTATCATATA	ААТАТАСАДА	420
CGCTGTGGTG	TACGACTTCA	CACTTAAGTG	TTGACCGACT	ATTTTTTGTA	TTATTAGGGA	480
AACAAAAGTC	TTCTAACAGC	ATGTAGGCCG	TCTCACACGG	AAACAGCTTC	AGTTAGAGCG	540
AGTTGCCCAC	CTGCTTAATT	GCGCGGGTTC	AATACAAACC	GTGAAGTTTC	GGCACCAATA	600
CAGCTTTTTT	CTTTGCCTCC	TTAGCTCAGC	TGGCAGAGCA	GCGGACTCTT	AATCCGTGGG	660
TCACAGGTTC	GATCCCTGTA	GGGGCATAT	AAATACAACA	GGAAAAGCCT	TATAATATAG	720
GGCTTTTTTT	GCTTTCCTTT	TAAAAATTGT	CGTGCAATTT	GCCGTGTTTT	TACAACAAAC	780
TTTTCACAGC	CATAAACTCC	TCACTAATTT	TTTCCTCCAA	GGTATGCCCA	TAAACGTCAA	840
TCAACATGGA	GATATCTTTA	TGTCCTAAAA	TTTGGCTCTT	TGTCAACTGT	AGTGGGTTGA	900
AGTCAGCTAA	GCTCGAGAAA	GGACAAATTT	TGTCCTTTCT	TTTTTGATAT	TCAGAGCGAT	960
AAAAATCCGT	TTTTTGAAGT	TTTCAAAGTT	CCGAAAACCA	AAGGCATTGC	GCTTGATAAG	1020
TTTGATGAGA	TTATTGGTCG	CTTCCAATTT	GGCGTTAGAA	TAGTGTAGTT	GAAGGGCGTT	1080
GACGATTTTC	TCTTTGTCCT	TTAGAAAGGT	TTTAAAGACA	GTCTGAAAAA	GAGGAGGAAC	1140
CTGCTTTAGA	TTGTCCTCAA	TGAGTCCGAA	AAATTTCTCC	GGTGCCTTAT	TCTGAAAGTG	1200

1245

1284 AAACAGCAAG AGTTGATAGA GCTGATAGTG ATGTTTCAAG TCTTG

(2) INFORMATION FOR SEQ ID NO: 258:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1684 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 258:

ATGCCTATGT	AACTCCACAT	ATGACCCATA	GCCACTGGAT	TAAAAAAGAT	AGTTTGTCTG	60
AAGCTGAGAG	AGCGGCAcCC	AGGCTTATGC	TAAAGAGAAA	GGTTTGACCC	CTCCTTCGAC	120
AGACCATCAG	GATTCAGGAA	ATACTGAGGC	AAAAGGAGCA	GAAGCTATCT	ACAACCGCGT	180
GAAAGCAGCT	AAGAAGGTGC	CACTTGATCG	TATGCCTTAC	AATCTTCAAT	ATACTGTAGA	240
AGTCAAAAAC	GGTAGTTTAA	TCATACCTCA	TTATGACCAT	TACCATAACA	TCAAATTTGA	300
GTGGTTTGAC	GAAGGCCTTT	ATGAGGCACC	TAAGGGGTAT	ACTCTTGAGG	ATCTTTTGGC	360
GACTGTCAAG	TACTATGTCG	AACATCCAAA	CGAACGTCCG	CATTCAGATA	ATGGTTTTGG	420
TAACGCTAGC	GACCATGTTC	AAAGAAACAA	AAATGGTCAA	GCTGATACCA	ATCAAACGGA	480
AAAACCAAGC	GAGGAGAAAC	CTCAGACAGA	AAAACCTGAG	GAAGAAACCC	CTCGAGAAGA	540
GAAACCGCAA	AGCGAGAAAC	CAGAGTCTCC	AAAACCAACA	GAGGAACCAG	AAGAATCACC	600
AGAGGAATCA	GAAGAACCTC	AGGTCGAGAC	TGAAAAGGTT	GAAGAAAAAC	TGAGAGAGGC	660
TGAAGATTTA	CTTGGAAAAA	TCCAGGATCC	AATTATCAAG	TCCAATGCCA	AAGAGACTCT	720
CACAGGATTA	АААААТААТТ	TACTATTTGG	CACCCAGGAC	AACAATACTA	TTATGGCAGA	780
AGCTGAAAAA	CTATTGGCTT	TATTAAAGGA	GAGTAAGTAA	AGGTAGCAGC	ATTTTCTAAC	840
TCCTAAAAAC	AGGATAGGAG	AACGGGAAAA	CGAAAAATGA	GAGCAGAATG	TGAGTTCTAG	900
TTCTCATTTT	TTTCATGAAA	ATGTGCAAAA	TATAGTAGAT	TGAAACTAGA	ATAGTATACC	960
TCTACTTCTA	AAACATTGTT	AGAAATCGAT	TTGACTGTCC	TGTTCTTATT	TCATTTTACT	1020
ATATCTTAAC	AGATAGTGTA	AATAAAGATA	AACTATTTAC	TGGCTAATTA	ATCAGTTAAA	1080
CACTAGTTAA	GGAGTAATGA	TGAAAAAAG	AACAATACTA	TTATTGATGG	CCAGTCTGTT	1140
AGCTCTTGTC	TTAGGAGCAT	GTGGTTTCTT	GGACATATTG	ATCCTGGATC	ATTCTCATCA	1200
GGATTACTCT	TTACTGCTAT	TTTAGAAACT	GGGGTGGTTT	GATGGAAAGT	ATTGGTCTTG	1260
TTATCGTTTC	ACATTCCAAA	CACATTGCAG	AAGGTGTTGT	TGAACTGATT	AGTAAAGTAG	1320
CTAAAGATGT	TCCGATTACT	TATGTAAGAG	GAACCGAGGG	CGGAGGAATT	GGAACGAGTT	1380

PCT/US97/19588 WO 98/18931

1285

TTGAACAAGT	AGATAGGGTT	GTTTCCGAAA	ATCCAGCAGA	TACTTTACTT	GCCTTTTTTG	1440
ACCTAGGTTC	TGCTAAAATG	AACTTAAAAA	TGGTGACTGA	TTTCAGTGAT	AAAAGTATCA	1500
TCATCAACAG	GGTTCCAATT	GTAGAAGGTG	CCTATAATGC	AGCTGCTCTT	CTTCAGGCTG	1560
GTGCAGAACT	GTCAGTTATT	CAAACACAGT	TaGCGGAgCt	TGAAATCAAT	AAATAAGGAA	1620
TTTTACTATA	ACTCTTTTTA	TAGATAAGCT	ATTGATTATC	тсаастатаа	TAATGTTAAG	1680
TnAA						1684

(2) INFORMATION FOR SEQ ID NO: 259:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 970 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 259:

AGGAGTGGAG	Anatatgaag	ACACAAATTT	TCACATTATT	GAAAATCGTT	GCTGAGATTA	60
TTATTATTTT	GCCATTTCTA	ACTAATCTAT	AAGTTCTTTA	TATTGCTGAA	AACGCAATTC	120
AAAAAGGGCT	ATTAATTGTG	GATTTTCTAA	TACCTGCAGA	GATTGGATAA	AGCGTTCAAT	180
CTCTTTTTGA	TTGCTTCCCT	TTGTTTGAAG	AAAGACACTC	ATCTTCTTTA	AAAATTGCCA	240
CGATACTTTT	TCAAAAACAT	CATACGGTCG	TAACATCCTC	TCCAACTCGG	CTTCGAAGAT	300
TGGGATGTAG	GAGAAAAGTT	TTCGCTCCAT	GAGTTCTGAT	AAGATATTTA	AGAGTCCTTG	360
CTTCATATAC	AATCGATTGT	GTACTAACTC	TTTAAATTCT	TTGGATTTTT	CGAGTAAGGA	420
GGTTGATAAA	AAAATCAGAT	CTTGATTGCT	CAAGAAGGGC	ATGGTATTGC	AAAAGAGATA	480
GAGTTCAAAC	CAGGTCCAAG	ACTCGATAGC	ATAGAGATAG	GTGGTCAAAA	ACTCGCTATC	540
CTCCTCTGCT	AGTGGGTAGC	TTTTATTTAG	TGAATGGATG	GCATCTTTAA	TCACGATGGC	600
ATTCAAACGA	CGATAGGTCT	GCGCCATCTG	TTCTTGATCG	ACTTCCTCCA	ATAGCTGCTC	660
TAAAGCAGCT	ATATCCTGAT	GGGCAAAGCG	ATTCACAACC	TTTCGACCGA	TTCGCATATG	- 720
TGGAGATTCT	TGATAGTTGT	TGAGCTTGTG	CCCAAACTCA	TCAAAGGTCA	CATTTATACC	780
TTGGATAGCT	AGAATCAACT	TATCCGCAGA	CAGCATAGAC	TGCCCTAGTT	CAAACTTGGA	840
CAACTGAGAA	GCTGTTAGAC	CCTCACAAGC	CACATCTGAC	TGCTTGAGCT	TTCTCGCCAA	900
ACGTAATTCC	TTGTAAAATT	CCCCCAGTTC	CATTCTCTCA	ATCATCTGAC	CACCTCCTAG	960
CTTTTGCAGG						970

(2) INFORMATION FOR SEQ ID NO: 260:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2996 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 260:

GTTGACCACG	GGTAAAACTA	CCCTAACTGC	AGCTATCACA	ACTGTTTTGG	CACGTCGCTT	60
GCCTTCATCA	GTTAACCAAC	CTAAAGACTA	TGCGTCTATC	GATGCTGCTC	CAGAAGAACG	120
CGAACGCGGT	ATCACTATCA	ACACTGCGCA	CGTTGAGTAC	GAAACTGAAA	AACGTCACTA	180
CGCTCACATC	GACGCTCCAG	GACACGCGGA	CTACGTTAAA	AACATGATCA	CTGGTGCTGC	. 240
TCAAATGGAC	GGAGCTATCC	TTGTAGTAGC	TTCAACTGAC	GGACCAATGC	CACAAACTCG	300
TGAGCACATC	CTTCTTTCAC	GTCAGGTTGG	TGTTAAACAC	CTTATCGTCT	TCATGAACAA	360
AGTTGACTTG	GTTGACGACG	AAGAATTGCT	TGAATTGGTT	GAAATGGAAA	TCCGTGACCT	420
ATTGTCAGAA	TACGACTTCC	CAGGTGACGA	TCTTCCAGTT	ATCCAAGGTT	CAGCACTTAA	480
AGCTCTTGAA	GGTGACTCTA	AATACGAAGA	CATCGTTATG	GAATTGATGA	ACACAGTTGA	540
TGAGTATATC	CCAGAACCAG	AACGTGACAC	TGACAAACCA	TTGCTTCTTC	CAGTCGAGGA	, 600
CGTATTCTCA	ATCACTGGAC	GTGGTACAGT	TGCTTCAGGA	CGTATCGACC	GTGGTATCGT	660
TAAAGTCAAC	GACGAAATCG	AAATCGTTGG	TATCAAAGAA	GAAACTCAAA	AAGCAGTTGT	720
TACTGGTGTT	GAAATGTTCC	GTAAACAACT	TGACGAAGGT	CTTGCTGGAG	ATAACGTAGG	780
TGTCCTTCTT	CGTGGTGTTC	AACGTGATGA	AATCGAACGT	GGACAAGTTA	TCGCTAAACC	840
AGGTTCAATC	AACCCACACA	CTAAATTCAA	AGGTGAAGTC	TACATCCTTA	CTAAAGAAGA	900
AGGTGGACGT	CACACTCCAT	TCTTCAACAA	CTACCGTCCA	CAATTCTACT	TCCGTACTAC	960
TGACGTTACA	GGTTCAATCG	AACTTCCAGC	AGGTACTGAA	ATGGTAATGC	CTGGTGATAA	1020
CGTGACAATC	GACGTTGAGT	TGATTCACCC	AATCGCCGTA	GAACAAGGTA	CTACATTCTC	1080
TATCCGTGAG	GGTGGACGTA	CTGTTGGTTC	AGGTATGGTT	ACAGAAATCG	AAGCTTAATT	1140
CGATTTAGTT	CCCAGAAGAA	CAATTATTTA	AGTTAGACAC	TAAAAGAATC	TTGCTTGGCA	1200
AGGTTCTTTT	TTTAGATATT	GAACTAATAC	TCAATGAAAA	TCAAAGAGCA	AACTATAATA	1260
TATTGAAACT	AGAATAGTAC	ACATCTACTT	CTAAAACATT	GTTAGAAATC	GATTTGACTG	1320
TCCTGATCGA	TTTGTCTTGT	TCTTATTTCA	TTTTACTATA	GAAAGTTAGC	TACAGACTGC	1380
TCAAAACATT	GTTTTTAGGT	TGTAGATAGA	ACTGACGAAG	TCAGLAACAT	CTATACGACA	1440

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AGGCGAAGCT	GACGCGGTTT	GAAGAGATTT	TCGAAGAGTA	TAATACTAGA	СТАЛАЛТСАЛ	1500
AAAGCATTAT	ACAATAGTAA	TATGAAATCA	ATTAAAGAAG	AAATCCAAAC	CATCAAAACA	1560
CTTTTAAAAG	ACTCTCGTAC	AGCTAAATAT	CATAAACGCC	TTCAAATCGT	TCTATTTCGT	1620
CTGATGGGCA	AATCTTATAA	AGAGATTATA	GAACTTTTAT	AGTGGTTTGA	AATAAGATGT	1680
GAACAACTCT	ATCAGGAAAG	TCAAACTAAT	TTATAGAAAT	ATTTTAGCAG	CCAAGGTGTA	1740
CTGTTATAGA	TTCAATACAC	TTTAGACTGT	AATCAAACAA	CGATTTGGCG	AAATGTAAAA	1800
AATATGAGGA	GTTCGGACTC	GACTCTCTCC	TTCAAGAAAC	ACGTGGTGGT	CGTAACCATG	1860
CTTATATGAC	GGTTGAGCAA	GAGAAAGTCT	TTCTTGCCCG	CCATTTGAAG	GCTACAGAGG	1920
CAGGAGAATT	TGTTACAATT	GATGCCTTAT	TTCAGGCTTA	TAAAAAGGAG	TTAGGTCGTT	1980
CCTACACACG	TGATGCCTTC	TATCAACTGT	TGAAGCGCCA	TGGTTGGCGA	AATATTACGC	2040
CACGTCCAGA	ACATCCTAAG	AAAGCAGATG	CTCAAACCAT	TGTCGCGTCT	AAAAATAAAG	2100
TCTCAATTCA	AGAAGACAAG	TGAACTGCAC	CCCAAAAGTT	AGACAGAAAA	AATCTAACTT	2160
TTGGGGTGTT	TTTATTATGA	AATTAACTTA	TGATGATAAA	GTTCAGATCT	ATGAACTTAG	2220
AAAACAAGGA	TATAGCTTAG	AGAAGCTTTC	AAATAAATTT	GGGATAAACA	ATTCTAATCT	2280
TAGGTACATG	ATTAAATTGA	TTGATCGTTA	CGGAATAGAG	TTCGTCAAAA	AAGGAAAAA	2340
TCGTTACTAT	TCTCCTGATT	TAAAACAAGA	AATGATTCAT	AAAGTCTGAC	ATGAAGGCTG	2400
GACTAAAGAT	AGAGTTTCTC	TTGAATACTG	TCTCCCAAGT	CGTACGATAC	TTCTTAACTG	2460
GCTAGCACAA	TACAGGAAAA	ACGGGTATAC	TATTGTTGAG	AAAACAAGAG	GGAGAGTACC	2520
TGAGAGCGGA	GAATGCCATC	CTAAAAAAGT	TAAGAGAACT	CCGATTGAAG	GAGGAAAAAG	2580
AGAAAGAAGA	AAGACAGAAA	TTATTCAAGA	ATTAATGACT	GAGTTTTCGT	TAGATATTCT	2640
TCTAAAAGCC	ATTAAACTAG	CTCGTTTGAC	CTACTACTAT	CACTTGAAAC	AGCTAGATAA	2700
ACCAGATAAG	GACCAAGAGC	TTAAAGCTGA	AATTCAATCC	ATTTTTATCG	AACACAAGGG	2760
AAATTATGCT	TATCGTCGGA	TTTATTTAGA	ACTAAGAAAT	CGTGGTTATC	TGGTAAATCA	2820
TAAAAGAGTT	CAAGGCTTGA	TAAAAGTACT	CAATTTACAA	GCTAAAATGC	GACAGAAACG	2880
AAAATATTCT	TCTCATAAAG	GAGACGTTGG	CAAGAAGGCA	GAGAATCTCA	TTCAAGGACA	2940
ATTTGAAGGC	TCTAAAACAA	TGGAAAAGTG	CTACACAGAT	GTGACAGAAT	TTGCCG	2996

⁽²⁾ INFORMATION FOR SEQ ID NO: 261:

⁽i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 837 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

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(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 261: CTTATCAACT CCCGACATGG CTCTCAGACC AATCCAAATC CCTAAAAAAA TCAGAACAAG 60 GATGGTGGTC AAGATCAAAC TCTCGAAATA TAAAGAAAAT AGTTGCAGTA GCATGATTTC 120 TCTCATTTCT ATCTTTTTA AAGAGTAAAC TCAGCTAGTC CAACTAACTG AGTTTTCCTT 180 TATCTATTAT ATCAAATATA AGTCCGTTTG TAACTAGCGA AGAATTCTTT TGTCCGCTCT 240 TCTTTAGGGG TGTGGATAAT CTCATCCGGA GTTCCAGACT CGATGATTTT CCCCTTATCT 300 AAGAAGAGAA TTTTATCCGC AACTTGGGCT ACAAAGGACA TGTCATGACT GACCAAAATC 360 ATGGTCTGAC CTGACTTAGC AGCATCTGCA ATAGACTTTT CTACTTCACC GACCAATTCT 420 GGGTCAAGGG CTGAAGTTGG TTCGTCTAAG AGCAAAACAT CTGGTTTCAT AGCAAGCGCA 480 CGCGCTAGGG CAACCCGTTG CTTCTGTCCA CCTGATAAAT GGCGAGGATA ATGGTTTTCA 540 CGGTCCGAAA GCCCAACCTT AGCCAACTCT TCCTTGGCAA TCTTAGTCGC TTCTTGGTCA 600 GATAATTTCT TGACAACAAC CAAGCCTTCT TTCACATTAT CAAGTGCTGT TCGGCGTTCA 660 AACAAATTAA ACTGTTGGAA AACCATAGAC AACTTACGAC GTAGGGCAAG GATTTCTTCT 720 TGAGTGATTT TAGAAAAATC AACTGAAAAA CCATCAATCT GAATAGAGCC ACTGTCAGGT 780 GTTTCTAGAT AATTGAGACT GCGAGAAAGG TTGATTTTCA GCTCTGAAGA CCAATCA 837 (2) INFORMATION FOR SEQ ID NO: 262:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 868 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 262:

CCGAACAAAA	TGGGCTAATT	AGATTATAGT	AAGAAAGGTA	AGTTAAAAAT	GAGAATTGCA	60
ATTGGATGTG	ACCACATCGT	AACTGATGAA	AAAATGGCGG	TTTCAGAATT	TTTGAAATCA	120
AAAGGATATG	AAGTCATTGA	CTTTGGTACC	TATGACCATA	CACGGACTCA	CTACCCAATC	180
TTTGGTAAAA	AAGTAGGGGA	AGCTGTAACT	AGCGGTCAAG	CTGATCTTGG	AGTATGTATC	240
TGTGGTACTG	GTGTTGGTAT	CAACAACGCT	GTAAATAAAG	TTCCAGGTGT	TCGTTCTGCC	300
TTGGTTCGTG	ATATGACAAC	AGCCCTTTAT	GCTAAAGAAC	AATTGAACGC	TAACGTTATT	360
ĢGTTTTGGTG	GTAAAATTAC	TGGTGAATTG	CTTATGTGTG	ATATCATCGA	AGCTTTCATC	420

1289

CA'	'GCTGAAT	ACAAACCAAC	TGAAGAAAAC	AAAAAATTGA	TTGCGAAAAT	TGAACATGTT	480
GA	VAGTCACA	ATGCTCAACA	AACAGACGCA	AACTTCTTTA	CAGAATTCCT	TGAGAAATGG	540
GA′	rcgtggag	AATACCACGA	CTAAGAGGTG	ACCTATGATT	TTAACAGTCA	CAATGAACCC	600
ATO	CATCGAT	ATTTCCTATC	CCTTGGATGA	GTTGAAGATT	GATACTGTCA	ATCGTGTGGT	660
GG	ATGTAACC	AAAACGGCTG	GTGGTAAGGG	ACTCAATGTT	ACCCGAGTAC	TTTCAGAATT	720
TG	CGATTCT	GTTCTTGCTA	CTGGTTTAGT	GGGTGGCAAA	CTTGGTGAGT	TTTTGGTTGA	780
AC/	ATATCGAT	AATCAAGTAA	AGAAAGATTT	CTTCTCAATT	AAGGGAGAAA	CTCGTAACTG	840
TA:	CGCTATT	CTCCACGGAG	ACAACCAA				868

(2) INFORMATION FOR SEQ ID NO: 263:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 3744 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 263:

CCGTTCAAAG	TCTTCATAAG	ACTCGAAAGT	CACAGTTCTT	TCGTTCTTGC	TGGCATCTAT	60
ATAGGTAATT	TCAATCATGT	TTAAAACTCC	TTTGTTTAAT	GCTAACTTTA	TTTTACTCCT	120
TATAAAAGAG	AATGTCAAGA	AAAATGATTG	CGCACGCAAC	TTTTTTTAAA	ATCATCTTAA	180
ATCAAGAAAT	CCAAACCTGC	TTCCAAGCTT	TCTTCGACAG	TCTTTTGTAG	CGAGGCCAGT	240
GTCTTTTGCC	CATCATTTGT	CAGGCAGATA	AAACTAGAGC	GTCTATCTTG	ATGGCAACAC	300
ATGCGACTGA	GTAGACCGCA	ATTTTTAGCT	TCCAAGCGAG	CCACCATCCT	AGAAACTGCG	360
CTCGGGCTCA	GATGAAGCTT	ATCTGGCAGG	TCAATCTGGC	GTAGAGATTT	TTCTTCAGCC	420
AAGTCCAGAT	AGTAGAGCAG	GTAGAACTCT	TTCAAGGTCA	GACTTTGCTC	GCTCTGTTGG	480
GCAATGGTCT	CTTCCAAGAG	ACTTTCAATT	TCTTTCTGAC	GCCGATTGAA	GTCAAACCAT	540
TTTTCCAAAT	AGGTCATAGT	GTCTCCTTTC	TTTTTAGAGT	CATAAATAGA	AGAAAGTCCA	- 600
TTAACGGGCA	GTCTCTGCGT	CACAAGATGA	TTGCGCATGC	ATATTATA	CTACTTTTCA	660
AGAATGCTGG	CAAGCTCTGT	TTTTTAGTGG	TTTTATTTT	GTGTGAATAA	TGGGGGAATC	720
CTATTGTTTC	AATTTCTAAC	TCCTTATCAC	ATTCGAATTC	AGATTTTATT	TCATTTCTCT	780
ATCTATAGTT	GCTTAGTTTA	AAATAAGCAT	GGTCTAATAA	AGCTATGCAT	ATAGTACTGA	840
TTTTAAACAA	GGAGCATTAG	ATTCCATTAA	AGGAGGCAC	AGACATGTCG	AGGCGGCCAA	900

			1290			
AGTTTTTGAT	GTCGGCGTCA	GAACTCTCTT	CACGTGGGAA	AAGAAAGACG	TAAACAAGGG	960
AACTTAGAGC	GGAAAAAGCG	AGTCGTCAAA	AAGCGTAAGA	TCCCTTTAGA	AGAATTGAAA	1020
GCCTTTGTAG	AGGCTCATCC	AGACGCTTTT	TTACGGGAAA	TTGCGGCCCG	TTTTGATTGT	1080
GCTTTGCCCT	CCGTATGGGC	AGTTTTAAAG	CAGATTAAGG	TCATTTTAAA	AAAGACGACC	1140
AGTTTTAGGG	AACAAAAGCC	TGAGAAAGTT	TCTGAGTTTC	TTGATATTTT	GGATAACCTA	1200
AAAGATTTAC	CAGTCCTATA	TATTGACGAA	ACGGGAATCG	ACCGCTACCT	CTATCGTCCT	1260
TATGCAGGGG	CTCCTAGAGG	GGAGAAAGTC	TATGGCAAGA	TTAGCGGACG	GCGTTTTGAG	1320
CGGACTAATG	AGGTGGAGCA	AAAACTCAAT	GGTAGTTTTC	TAATCAGATA	TATTGATTCA	1380
CAAATTAGAG	AATGAAAGAA	TAATTATGCA	TAAAAATAGG	AATATAAACC	AAAAATTAGC	1440
TGATTTATAC	TCATTTGCGT	GTCTTTATAA	AAAACTTATC	ТТАТААТАТА	ТАТАТАТАТА	1500
TATACAAAAT	AGTAAAATGC	$\mathbf{T}\mathbf{T}\mathbf{T}\mathbf{T}\mathbf{T}\mathbf{T}\mathbf{T}\mathbf{T}\mathbf{T}\mathbf{T}$	TAGCAAAAAT	ACCTCAAGTT	TCTTGCTATT	1560
TTGGGTTCCC	TATTCTATAA	TTATAGTATG	GTAATTTATT	TATATCCATA	CATGAAAATA	1620
ATACTCGAAA	GGAAATTTCA	AAATATTTTT	TAGACGTCAG	AAGGGTGAAT	ATAGAGAAAC	1680
AGACCGAGTA	ACTCGGTTCA	AATTAATCAA	ATCAGGGAAG	CATTGGCTAC	GGGCCTCGAC	1740
TTCTCTTTTT	GGCTTGTTTA	AGGTCTTGCG	AGGTGGTGTT	GATACTACTC	AGGTCATGAC	1800
CGAAACGGTA	GAAGATAAAG	TAAGTCATTC	AATTACTGGG	CTTGATATCC	TCAAGGGGAT	1860
AGTTGCTGCG	GGAGCTGTCA	TAAGTGGAAC	CGTTGCAACT	CAAACGAAGG	TATTTACAAA	1920
TGAGTCAGCA	GTACTTGAAA	AAACTGTAGA	GAAAACGGAT	GCTTTGGCAA	CAAATGATAC	1980
AGTAGTTCTA	GGTACGATAT	CTACAAGTAA	TTCAGCGAGT	TCAACTAGTT	TGTCAGCTTC	2040
AGAGTCGGCA	AGTACATCTG	CATCTGAGTC	AGCCTCAACC	AGCGCTTCGA	CCTCAGCAAG	2100
TACAAGTGCA	TCAGAATCAG	CAAGTACATC	GGCTTCGACA	AGTATTTCTG	CATCATCTAC	2160
TGTGGTAGGT	TCACAAACAG	CTGCCGCTAC	AGAAGCAACT	GCTAAGAAGG	TCGAAGAAGA	2220
TCGTAAGAAA	CCAGCTAGTG	ATTATGTAGC	ATCAGTTACA	AATGTCAATC	TCCAATCTTA	2280
TGCTAAGCGA	CGCAAGCGTT	CAGTGGATTC	CATCGAGCAA	TTGCTGGCTT	СТАТААААА	2340
TGCTGCTGTT	TTTTCTGGCA	ATACGATTGT	AAATGGCGCC	CCTGCAATTA	ATGCAAGTCT	2400
AAACATTGCT	aaaagtgaga	CAAAAGTTTA	TACAGGTGAA	GGTGTAGATT	CGGTATATCG	2460
TGTTCCAATT	TACTATAAAT	TGAAAGTGAC	AAATGATGGT	TCAAAATTGA	CCTTTACCTA	2520
TACGGTTACG	TATGTGAATC	CTAAAACAAA	TGATCTTGGT	AATATATCAA	GTATGCGTCC	2580
TGGATATTCT	ATCTATAATT	CAGGTACTTC	AACACAAACA	ATGTTAACCC	TTGGCAGTGA	2640
TCTTGGTAAA	CCTTCAGGTG	TAAAGAACTA	CATTACTGAC	AAAAATGGTA	GACAGGTTCT	2700

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АТССТАТААТ	ACATCTACAA	TGACGACGCA	GGGTAGTGGG	TATACTTGGG	GAAATGGTGC	2760
CCAAATGAAT	GGTTTCTTTG	CTAAGAAAGG	ATATGGATTA	ACATCATCTT	GGACTGTACC	2820
AATTACTGGA	ACGGATACAT	CCTTTACATT	TACCCCTTAC	GCTGCTAGAA	CAGATAGAAT	2880
TGGAATTAAC	TACTTCAATG	GTGGAGGAAA	GGTAGTTGAA	TCTAGCACGA	CCAGTCAGTC	2940
ACTTTCACAG	TCTAAGTCAC	TCTCAGTAAG	TGCTAGTCAA	AGCGCCTCAG	CTTCAGCATC	3000
AACAAGTGCG	TCGGCTTCAG	CATCAACCAG	TGCCTCGGCT	TCAGCGTCAA	CCAGTGCGTC	3060
AGCTTCAGCA	AGTACCAGTG	CTTCAGTCTC	AGCATCAACA	AGTGCTTCAG	CCTCAGCATC	3120
GACAAGTGCC	TCGGCTTCAG	CAAGCACATC	AGCATCTGAA	TCAGCGTCAA	CCAGTGCTTC	3180
GGCTTCAGCA	AGTACCAGTG	CTTCAGCTTC	AGCATCAACC	AGCGCCTCGG	CCTCAGCAAG	3240
CACCTCAGCT	TCTGAATCGG	CCTCAACCAG	CGCCTCGGCC	TCAGCAAGCA	CCTCAGCTTC	3300
TGAATCGGCC	TCAACCAGCG	CCTCAGCCTC	AGCATCAACG	AGTGCTTCGG	CTTCAGCAAG	3360
CACAAGCGCC	TCGGGTTCAG.	CATCAACGAG	TACGTCAGCT	TCAGCGTCAA	CCAGTGCTTC	3420
AGCCTCAGCA	TCAACAAGTG	CGTCAGCTCA	GCAAGTATCT	CAGCGTCTGA	ATCGGCATCA	3480
ACGAGTGCGT	CTGAGTCAGC	ATCAACGAGT	ACGTCAGCCT	CAGCAAGCAC	CTCAGCTTCT	3540
GAATCGGCCT	CAACCAGTGC	GTCACCTCAG	CATCGACAAG	CGCCTCAGCT	TCAGCAAGTA	3600
CCAGTGCTTC	AGCCTCAGCG	TCGACAAGTG	CGTCGGCCTC	AACCAGTGCA	TCTGAATCGG	3660
CATCAACCAG	TGCGTCAGCC	TCAGCAAGTA	CTAGTGCATC	GGCTTCAGCA	TCAACCAGTG	3720
CCTCGGCTTC	AGCGTCAAAC	AGTG				3744

(2) INFORMATION FOR SEQ ID NO: 264:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 795 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 264:

C	GATAAAGAG	GCCTTGAGTA	ATCTCAATTT	GCAGATTGAA	AATGGAGAGA	TTATGGGCTT	60
G	ATTGGTCAT	AATGGGGCTG	GAAAATCGAC	САСТАТАААА	TCCCTAGTCA	GTATCATTTC	120
A	CCCAGCAGT	GGTCGTATTT	TGGTAGACGG	TCAGGAGTTA	TCGGAAAATC	GCTTGGCTAT	180
T	AAACGAAAG	ATTGGCTACG	TAGCAGACTC	GCCTGACTTA	TTTTTACGCT	TAACGGCCAA	240
T	GAATTTTGG	GAATTGATCG	CCTCATCCTA	TGATCTGAGT	AGATCTGACT	TGGAGGCTAG	300

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TCTAGCTAGG	CTATTGAACG	TTTTTGATTT	TGCTGAAAAT	CGCTATCAGG	TTATTGAAAC	360
TCTTTCTCAC	GGAATGCGTC	AGAAAGTCTT	TGTCATCGGA	GCACTCTTGT	CTGATCCCGA	420
TATTTGGGTC	TTGGATGAAC	CCTTGACTGG	TTTGGATCCC	CAGGCTGCCT	TTGATTTGAA	480
ACAGATGATG	AAGGAACATG	CACAAAAAGG	GAAGACAGTC	TTGTTTTCAA	CTCATGTCCT	540
AGAGGTGGCA	GAGCAAGTCT	GTGATCGGAT	TGCCATTTTG	AAAAAGGGCC	ATTTGATTTA	600
TTGTGGTAGT	GTAGAGGACT	TGAGAAAAGA	TTACCCAGAC	CAGTCTTTGG	AAAGTATCTA	660
CCTTAGTCTT	GCTGGTAGAA	AAGAGGAGGT	TGCGGATGCG	TCTCAAGGTC	ATTAAAAAAT	720
TAGTTGATAT	CAATATCCTT	TATTCATCTC	AAGAAGCTAA	TCTGGCTAAT	CTACGAAAGA	780
AGCAGGCTAA	GAATC					795

(2) INFORMATION FOR SEQ ID NO: 265:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2231 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 265:

TGGTAATGTG	CTTGGCAGCw	TCCTTGACAC	TGCTACTACC	ATTTCCCATA	GCGACCGACA	60
TACCAACGCC	AGCCAGCATT	TCAAGATCAT	TATCTGAGTC	ACCAAAAGCC	ATGACTTGGT	120
TGAGGTCAAA	GCCATATTCT	TTCCCAACTC	GGCGAATGCC	ТТСТААТТТА	GAATTTCCCT	180
GATTGATGAC	ATCCGATGCA	AAAGGATTGC	TACGTGTCAA	TTTCAAGTCT	TCAAAATCAG	240
CTGCCGCCTT	CTCAGATTCT	TCTGGTGTCA	TCAGCATCAA	AACTTGGTAG	ATAGGCTGAT	300
TCATCAGGTG	AAGCAGGTCC	TCTTCCTTTT	GGGGAACAAC	CTTGCTGACC	ATGCGATTAA	360
AAGACTGACT	CACCGTCCGA	GTTAAAACAG	AGGGAACGAA	GCGACTAATT	CGTTGGGAAA	420
AAGAACCCAG	ACCAAAGGAC	ATGATTTTAG	AACCCAACAT	GGCATCCTTG	GTCCCTAGAG	480
CAATCTCCGT	GCCCTCTTTT	TTAGCATAGC	TAATTAGATG	GCGCAAATGT	AACTTGGAAA	540
TAGGGCTCGT	GAACAAGACT	CTGTCTTTAC	TAAAGATATA	CTGGCCATTA	TAGGTTACCG	600
CAAAATCCAG	ATCCAAATCG	TCCATCAATT	CCTTAACAAA	AAAAGGTCCT	CGCCCTGTCG	660
CTACGCCAAC	TAGTACCCCT	TGTTCTTTGA	CAATCTTAAT	CGCATCCTTA	GTGGATTTCA	720
AAACACTCTT	GCGATTGTTG	ACCAAGGTTC	CATCGATATC	ааааааааса	GCTTTGACTT	780
CCATCCTATC	CCAATCTCCC	CTTTTGTGAT	ACAATGATTA	TACCACATTT	CAGAAAGAGT	840
GAGTAAATCA	TGCCTAAGAA	AATCCTTGTT	TTACATACGG	GTGGAACTAT	TTCCATGCAG	900

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GCCGATGCTT	CTGGCGCTGT	TGTGACGAGT	TCAGATAATC	CCATGAACCA	TGTGTCCAAC	960
CCACTTGAAG	GAATCCAAGT	CCACGCCTTG	GACTTTTTTA	ACCTTCCAAG	TCCCCATATC	1020
AAACCCAAAC	ATATGCTGGT	CCTCTACCAG	AAAATTAAAG	AGGAAGCAGA	TAACTACGAT	1080
GGAGTGGTGA	TCACACACGG	AACCGATACT	TTAGAGGAAA	CAGCCTATTT	CCTTGATACC	1140
ATGGAAGTTC	CCCATATGCC	TATCGTTCTA	ACAGGAGCCA	TGCGTACtCC	AATGAGCTCG	1200
GTAGTGATGG	$\mathbf{TGTTTATAA}\bar{\mathbf{T}}$	TACCTAAGTG	CTTTACGAGT	GGCCAGCGAT	GACAGGGCTG	1260
CTGACAAAGG	AGTTTTGGTC	GTTATGAACG	ATGAAATCCA	CGCTGCCAAG	TATGTCACCA	1320
AAACACATAC	GACTAATGTC	AGCACCTTCC	AGACTCCAAC	ACATGGCCCC	CTTGGTCTCA	1380
TCATGAAACA	GGAAATCCTC	TACTTCAAAA	CAGCTGAACC	TCGTGTTCGC	TTTGACCTTG	1440
ATCACATACA	AGGTTTAGTC	CCTATCATCT	CGGCTTATGC	TGGTATGACA	GATGAGCTGA	1500
TTGATATGCT	GGATTTAGAA	CACTTGGACG	GTTTGATTAT	CCAAGCCTTC	GGAGCTGGTA	1560
ATATTCCCAA	AGAAACGGCT	CAAAAATTAG	AAAGCCTTCT	GCAAAAAGGA	ATTCCAGTCG	1620
CTCTGGTATC	ACGATGCTTT	AACGGTATTG	CCGAGCCTGT	TTATGCATAC	CAGGGTGGGG	1680
GCGTACAGTT	GCAAAAAGCA	GGCGTTTTCT	TTGTTAAAGA	ACTCAACGCC	CAAAAAGCTC	1740
GCTTGAAACT	CCTCATCGCC	CTCAATGCCG	GACTAACAGG	ACAGGCTTTG	AAAGACTATA	1800
TGGAAGGCTA	ATACTCTTCG	AAAATCTCTG	CAAACCACGT	CACGTCGCCT	TACCGTATGT	1860
ATGGLACTGA	CTTCGTCAGT	TTCATCTACA	ACCTCAAAAA	CATGTTTTGA	GCTGACTTCG	1920
TCAGTTCTAT	CTACAACCTC	AAAAACATGT	TTTGAGCTGA	CTTCGTCAGT	TCTATCTACA	1980
ACCTCAAAAA	CATGTTTTGA	GCTGACTTCG	TCAGTTCTAT	CTACAACCTC	AAAAACATGT	2040
TTTGAGCTGA	CTTCGTCAGT	TCTATCTACA	ACCTCAAAAA	CATGTTTTGA	GCTGACTTCG	2100
TCAGTTCTAT	CTACAACCTC	AAAAACATGT	TTTGAGCTGA	CTTCGTCAGk	TCTATCTACA	2160
ACCTCAAAAA	CATGTTTTGA	GCTGACTTCG	TTAGTTTCAT	CTACAACCTC	AAAAACATGT	2220
TTTGAGCTGA	С					2231

(2) INFORMATION FOR SEQ ID NO: 266:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1310 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 266:

GAGTCAAAGG	CTCCGAGGTT	GACTTTTTAC	1294 AAGGGGACAG	GTGAATATTA	TCTAGACCTG	60
CAGAAATTC	TCTTCTTTGA	AACAGAAGGG	AGCAAGATCT	ACGCTCATAA	CCAGAAGGAA	120
GCTTATGAGG	TTCGCCTCAA	GCTCTATGAG	TTGGAGTCTA	TCTTGCCTCG	СТАТТТТААТ	180
CGAGTTTCCA	AGTCAACGAT	CGCAAACATC	CGTCAGATTT	ACTCAGTGGA	CAAGTCCTTT	240
rcaggaacgg	GCACCATTTC	CTTTTATCAG	ACGCACAAGG	AGGTTCATGT	CTCACGGCAT	300
PACCAATCCC	TCCTAAAAGA	AAATCTAAGA	AACATGAGGT	AAAAAACATG	AAAAAGAAAG	360
CATTTGGTAT	TGTTTTATTG	GTTTTAGCAG	CTTGGATCTT	GCTGCAAGGG	AATTTTGGAA	420
PTCCTTCTTT	GGATGGTAAA	ATATGGCCTT	TACTAGGTAT	TGTTTTTTT	GCTTATAAGT	480
CATTGAGTC	CATCCTTAGA	CGTCATCTCA	CTTCGGCAGT	TTTTACAGGT	TTACTGGCGC	540
PCATCATTGC	AAATTACGCT	TATGACTTGT	TACCAGTTAC	CAATCATTCT	CTTATTTGGG	600
CTAGCATCTT	GGTGGTACTT	GGTGTTGGTT	ATCTGACGCA	TTCAAGTAAG	TTCTGGAATG	660
AAAAAAAATG	GTGGTACAAT	GGGAAAAAA	CAGTCGTCAC	GGATAAGGAA	GTCGCTTTTG	720
GTAGCGGGAC	CTTCTATAAG	CAAGATCAAG	ATCTCGTAGA	TGACCAAGTG	GAAGTCGCTT	780
TTGGGGATGC	ТААААТСТАС	TATGATAATG	CAGAGATGCT	AGGTGATTTT	GCAACTTTAA	840
atat tga agt	GGCCTTCGGG	AATGCAACCG	TCTATGTTCC	ACAACACTGG	CGTGTAGATT	900
rgaaagtaga	AACCTCCTTT	GGTGCAGCTA	AGGCTGACGC	TCCTGTAGCC	CCAACCAGCA	960
AAACCTTGAT	TATCCGTGGA	GATGTGGCTT	TTGGGAAGTT	GGAAATTGTC	TACGTTAAAT	1020
AAAAAAATCT	TCACTTCAAC	CATCAAAATA	GACGTACTAA	GAGTAGGAAA	TTGATGCCTT	1080
SCTCTGATTT	CAGTTCTATG	GTTGTTAGAC	TTTAAAAAAT	GAAATGCTGC	CTTTAAAAGT	1140
PGTATATTTT	TCGATATTTT	GGCTTTTACG	TTTGATGTAT	CTATGTACTA	CAGCGTAGAT	1200
GATGTAGTGT	CAAATGCTTT	TAAAAAACGG	ATGATATTGG	ACAGTTTTTT	TGCCTTTAAT	1260
rGCTCAGGAA	CCATGAAAGT	CAGTACCTGG	GTTTATGACA	AGGGAGAATG		1310
(2) INFORM	ATION FOR SI	EQ ID NO: 20	57:			

- (i) SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 5922 base pairs

 (B) TYPE: nucleic acid

 (C) STRANDEDNESS: double

 (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 267:

ACTCTGATTT GATTGGAACG ACAGTCGGTG CCATTGCAGT TACTTCAAAC GTAACGACTT ATGTTGAGTC TGCTGCTGGT ATCGGTGCAG GTGGACGTAC TGGTTTGACA GCCTTGGTTG

1295

180	GTACCAACAG	TCTAGCGATC	TTAGCCCACT	TCAAGCTTCT	TTTTGCGATT	TAGCTATCTG
240	TTGAAAAATA	GCTTGGTAGC	GGATTATGAT	ATTATCGTTG	TCCAATCTTG	CGGCTACAGC
300	TTTATGGGAT	CACATCTATC	CTGCCTTCTT	GAAGCAGTTC	TGATATGTCT	TCCATTGGGA
360	TTGACTAAGC	GACTTACACT	TTGGTTTCTT	GGGATTGCAG	TATCACTCAA	TCAGCTACTC
. 420	GCCTTGTTTA	GATTTTGGAT	TCATGATTTG	GATGTTCATG	TCAAGTTAAA	TTGTTAAAGG
480	CCCCCTTTT	AGGGGGATTT	AGAATGACCC	GCCTTATAAT	CATCAGCATG	TCCTTAACTA
540	TTGAATCGTG	GAAAGAATTG	AAAATATGTG	ATGAAAGAGA	GAGATAGGTG	TTAATACAaG
600	CTAGTGGTTA	TCAGGTTCCC	TCCTTTTATA	TTACTTGCCG	TTTGGTCTTT	CAGGCTGGAT
660	GTTGCTGGCC	AGGGCTGATA	TGCTACAGTC	GAAGTAGCCC	GACTTTAAAA	CCTCTATTTT
720	TTAGCTAGTT	TAAAACCAAG	TGGGAGCTCG	СТАТТТАТТА	GGTTCTGGCT	TTTCAATTGT
780	TATCTAGTTA	GGGCTTGAGT	TGGCACGTTT	GCTAAAGATT	TTTTTTTAGA	TTAATTTTC
840	ACGACAACAG	GTCAAATGAG	TATTGCAACT	GGTTCCATTT	AAATATACTT	TTGTCGGGTC
900	AGTTTCTTCT	GTTGATTTCC	AAAATAGTTC	GATATGGTTC	TCAGATTAAT	CTAACCAGTC
960	GTTCCTAAAA	TCGTGGGATT	AAATCTTGTG	ATTTGTGAGG	GCTTGCTCCG	TGCTAGCCTT
1020	TTTGCTTTAT	TACGATTGTG	TTGTAGTCGG	AACTTGGGAT	AGGCAAGGAG	AGATTTTCCG
1080	ACAGTTCTAT	AGGTATGTCG	TGATTTATGG	CCTTCTTTAT	AAGTAATTTA	TGCATCAACC
1140	ATGATTGTTA	CTTGCTTCAC	AAATGTCGAT	CAACGTTTGG	CTACAAGACC	CTTGGACAGC
1200	TTAGGAATTT	GAGTCGGACA	TGGTGATTAT	TTGGCTCTTG	TTTCTGTTTG	ATGGGATTGC
1260	TGAATGCAAT	CAGGGAAAGA	CTCTTTCTAC	AGGAACCGAC	GTTTTTATGT	CTGTTTAAAA
1320	AATCCTTGAG	ATATGATGAA	TAGAAAAATA	TATGGTAAAA	TTTTTCTTTT	CGTGTCCATC
1380	CGGAATTATC	CAGTTATTTG	CATGCAAAGA	TAAAGCCAAT	ATATGTCAAG	GGAGTGACCG
1440	GCAGGCGCTC	TTGCTCTTGA	GGTCAATTTT	TTCGGACGGT	CAGACTCCTT	AATGTAACCC
1500	CGGAGAATCG	TAGATATCGG	GCCAGTATGC	AGCAGAAGGA	GTAAATTGAT	CAGCAGGCTC
1560	TGTTCCAGTG	TCCAGCGTGT	GAAGAGGAAA	TGTTGAGATA	GAAGTAGCTA	ACTCGGCCGG
1620	GAAGAGTCAA	TTGATACTTG	CTCATCTCTA	AAGTGATGTC	TTCGCAAGGA	ATCAAAGCGA
1680	TGGTCTTATG	ATGATATCAC	GATCTAGTCA	TGCTGGTGCC	CTGCTTTGGC	GTAGCAGAGG
1740	CATCATGTTT	CGAAAGTGGT	GAAGCGAGAg	TGTGGTAGCT	AAATGGCTTA	GGTGATGAGA
1800	TTTTGGTTTT	TCTTCCCTCA	AGTTCGCTTA	TCAGCATCCT	TGGCTCGACC	AACCCAGTTA
1860	CGAAGACTTG	CATTGCCAAT	GACTTTGAAA	AGAGTTAGCT	TTACAGAAAA	GGTCAAACCT

			1296			
ATGGTGGCTT	TCTTTGAACG	AGCACTAGCG	AGAGCGGCAG	AAGCTGGTAT	TGCACCAGAA	192
AATATCCTGT	TGGATCCAGG	AATTGGCTTT	GGTCTGACCA	AGAAAGAAAA	TCTGCTTCTT	198
TTACGGGACC	TGGATAAACT	ACATCAGAAG	GGCTATCCAA	TCTTTCTCGG	AGTGTCGCGC	204
AAGCGATTTG	TCATCAATAT	CCTAGAGGAG	AATGGTTTTG	AAGTCAATCC	TGAGACAGAG	210
CTTGGTTTCC	GAŅATCGGGA	CACGGCTTCG	GCTCATGTAA	CTAGTATCGC	TGCGAGACAG	216
GGTGTAGAAG	TGGTGCGCGT	GCATGACGTA	GCTAGTCACA	GGATGGCAGT	TGAAATTGCC	222
TCTGCCATTC	GTCTGGCTGA	TGAAGCGGAA	AATTTAGATT	талалсалта	TAAATAAGAT	228
GAAAGAAATT	GAAAACAATC	AGTGGATTGC	TAACTACCGG	ACGGATCAAC	CGCATTTTGG	234
CTTGGAACGA	ATGGTGGAAC	TGTTAGCTTT	GCGTGGCAAT	CCCCATCTCA	AACTCAAGGT	240
CCTCCATATC	GGAGGGACTA	ACGGCAAGGG	CTCGACTATT	GCTTTTTTGA	AAAAGATGCT	. 246
AGAAAAGCTA	GGGTTGAGAG	TTGGCGTGTT	TAGCTCGCCC	TATCTCATTC	ATTACACAGA	252
CCAGATTAGC	ATCAATGGGG	AATCGATCTC	AGAAGCGAGG	CTAGAAGCTC	TCATGGCAGA	258
CTATCAGTCT	TTGCTGGAGG	GAGAAGCGGT	CGCCAATTTA	CAGGGCACAA	CCGAGTTTGA	264
GATTATCACA	GCCCTGGCCT	ATGACTACTT	TGCCTCAGAG	CAAGTAGATG	TGGCCATCAT	270
GGAAGTTGGC	ATGGGTGGAC	TTTTGGATAG	TACCAATGTC	TGTCAGCCCA	TTTTGACAGG	276
AATTACAACT	ATTGGCTTGG	ATCATGTGGC	TCTACTTGGT	GACACCTTGG	AGGTCATAGC	282
AGAGCAGAAG	GCAGGTATTA	TCAAACAAGG	GATGCCCTTG	GTAACAGGGC	GTATTGCTCC	288
AGAAGCCTTG	GCTGTGATTG	ACCGCATTGC	GGAAGGGAAA	GATGCGCCGA	GACTTGCCTA	294
CGGGACAGAT	TATCAGGTTC	GTCATCAAGA	AAGTGTGGTG	ACAGGGGAAG	TCTTTGACTA	300
TACAAGTGCT	GTCAGACAAG	GTCGCTTCCA	GACTAGCCTG	CTTGGTTTGT	ACCAAATAGA	306
GAATGCTGGG	ATGGCCATAG	CTTTACTTGA	TACTTTTTGT	CAAGAAGATG	GTCGAGAGCT	312
AGCAAGCAAT	GATTTTCTTG	GTCAAGCCTT	GGAAGAAACA	AGTTGGCCAG	GGCGTTTGGA	318
AATCGTGTCA	AGAGATCCCT	TGATGATTTT	GGATGGAGCC	CACAATCCCC	ATGCTATCAA	324
GGCCTTGTTG	GTAACCTTGC	AAGAACGTTT	TGCGGATTAT	CATAAGGAAA	TCCTCTTCAC	330
TTGTATCAAA	ACCAAGGCCT	TGGAGGATAT	GTTGGACTTG	CTGGGAGCCA	TGCCAGTTAC	336
CGAGCTTACT	CTAACACATT	TTGCGGATAG	TCGGGCGACG	GATGAAAACG	TGCTGAAAGA	342
GGCAGCTAAG	TCTAGAAATC	TCAGCTACCA	AGATTGGCAT	GATTTTCTAG	AGCAGAATTT	348
GACAGATAAA	AAAGAAGAGA	AACAAACAGT	TAGGATTGTC	ACAGGTTCCT	TGTATTTCTT	354
GAGCCAAGTG	AGGCCTATC	TGATGGAGAG	GAAGAACGAG	AATGGATACA	CAAAAGATTG	360
AAGCGGCTGT	AAAAATGATT	ATCGAGGCTG	TAGGAGAGGA	CGCTAATCGC	GAGGGCTTGC	366

1297

AGGAAACACC	TGCTCGTGTA	GCCCGTATGT	ATCAAGAGAT	TTTTTCAGGT	CTTGGTCAAA	3720
CAGCAGAGGA	ACATTTGTCA	AAATCCTTTG	AAATTATTGA	CGATAATATG	GTGGTAGAAA	3780
AGGATATCTT	TTTCCATACC	ATGTGTGAAC	ACCACTTCTT	GCCATTTTAT	GGTAGAGCGC	3840
ACATTGCCTA	CATTCCAGAT	GGTCGTGTGG	CAGGCTTGTC	TAAGCTAGCC	CGTACGGTTG	3900
AAGTTTATTC	GAAAAAACCA	CAAATTCAAG	AACGTTTGAA	TATCGAAGTG	GCCGATGCCT	3960
TGATGGACTA	TCTAGGTGCT	AAAGGAGCCT	TTGTTGTCAT	TGAGGCGGAA	CATATGTGTA	4020
TGAGTATGCG	TGGTGTTAGA	AAACCAGGCA	CTGCAACCTT	GACGACAGTA	GCTCGTGGTC	4080
TATTTGAAAC	AGATAAGGAT	CTCCGTGACC	AAGCTTATCG	TTTAATGGGG	CTATAAAAAG	4140
AATCCGCTTC	AAGCGGATTT	TTCTAGAAAG	GAATCATTAT	GGATCAACTG	CAGATTAAGG	4200
ATTTGGAAAT	GTTTGCCTAT	CATGGTCTTT	TTCCTAGTGA	GAAAGAATTG	GGGCAGAAAT	4260
TTGTCGTTTC	AGCCATCCTA	TCCTATGATA	TGACCAAGGC	AGCTACAGAC	TTGGATTTAA	4320
CAGCCTCTGT	CCATTACGGA	GAATTGTGTC	AGCAGTGGAC	GACTTGGTTT	CAGGAAACGA	4380
GTGAAGATTT	GATTGAAACG	GTAGCCTATA	AACTGGTGGA	ACGTACCTTT	GAGTTTTATC	4440
CTCTTGTCCA	AGAAATGAAG	TTGGAACTGA	AAAAACCTTG	GGCACCGGTG	CATTTGTCAC	4500
TAGATACTTG	CTCGGTAACC	ATTCATCGCC	GCAAGCAACG	AGCCTTTATC	GCCCTAGGAA	4560
GCAATATGGG	AGATAAACAA	GCAAACTTGA	AGCAAGCCAT	TGACAAACTG	CGAGCTCGTG	4620
GCATCCATAT	TCTCAAAGAG	TCCAGTGTCT	TAGCGACGGA	GCCTTGGGGT	GGAGTGGAGC	4680
AGGATAGCTT	TGCCAATCAA	GTGGTTGAGG	TGGAAACCTG	GCTACCAGCA	CAAGACTTGT	4740
TAGAAACCTT	GTTAGCCATT	GAGTCAGAGC	TGGGACGGGT	GAGAGAAGTG	CATTGGGGAC	4800
CTCGTTTGAT	TGATTTGGAC	TTGCTCTTTG	TGGAGGACCA	GATCCTTTAT	ACAGACGACC	4860
TCATATTGCC	TCATCCTTAC	ATAGCGGAAC	GCCTTTTTGT	CCTTGAGTCt	TACAGGAAAT	4920
TGCGCCTCAT	TTTATCCATC	CGATATTAAA	ACAACCGATC	CGCAACTTGT	ATGATGCTTT	4980
GAAAAAATAG	AAAAACTCTA	GTTTTCAGTT	ACTTGCAACT	GAAGGCTAGA	GTTTTTATAC	5040
TCTTCGAAAA	TCTCTTCAAA	CCACGTCAGC	GTCGCCTTAC	CGTACTCAAG	TACAGCTTGC	5100
GGCTAGCTTC	CTAGTTTGCT	CTTTGATTTT	CATTGAGTAT	TAAAATAGGT	CATTTTCTTC	5160
TGGGAGGAGG	ATAGTTTCTC	TACCGTCCAT	GTCTAAAACC	AGTACTCTTG	GGGGATAACG	5220
AGGGTCGAAA	GGATGGTTAA	AGTCAAAATC	AATGGCTGTA	GGGAGGTGTT	GACTTGAAAA	5280
GTGGAAGGTA	ATCTTTCCTT	GGTTATTAAG	CAATTGAAAC	TCGAGTTCTT	CTTCCAATTC	5340
AAAGACATTT	TTTAAGAAAT	GGTCGATGAT	АТАССААААА	GAGTCAATGA	TGTCATCAGG	5400

				1298			
CAAGCTGG	TA ACA	ATACCAA	AACTAGCAGA	TCGCATGTGG	GTATTGGTAA	AAGCCATATC	5460
TCTGTCCC	CT TTC	TTTTCCC	TTATCATACA	GCAAATAGGA	TTAAAAATCA	AGAAAAGGTG	5520
ATTTTTTG.	AA AAG	GATTTTA	GTTACAGGGA	GAAATAGGGA	AAAAATTCCT	AAAAATCTAC	5580
CGAAGTTA	AT AGG	TAAATTC	CCAAATTAAC	TTGATTATAT	AACTTTCAGT	TACTTTGAGA	5640
AGTTACCG.	AA AAA	TATTTT	CATATCTATT	GACTTTTAGG	GGTAAAATTT	GGTATGATAG	5700
TAGGCGGT.	AT TGT	TTACCCC	ATTTGAAAGG	CCCCGGAACC	TTCCAAATAC	TTTTCGATGG	5760
GAAGGAAC.	AC CCA	TCACCGT	АААСАААААТ	CGAACTATAT	ATAGGAGAAA	TCATGAACAA	5820
AACAACAT	TT ATG	GCTAAAC	CAGGCCAAGT	TGAACGTAAA	TGGTACGTAG	TTGACGCAAC	5880
TGATGTAC	CA CTT	GGACGTC	TTTCTGCAGT	AGTTGCTAGC	GT		5922
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(2) INFORMATION FOR SEQ ID NO: 268:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1988 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 268:

TAACTATCTA CGATGAGCTG TTGTGATTCT CATTAGTTCC CCTTTCCCAA GAGGCATAGG 60 GGTGCGCATA ATAGATGTGC TCCTCAGAAA ATATATCAAA CAAGCGATTG AATTCCGTTC 120 CATTATCTGC CGTGATGGAA AGAATCTTGT GTTGTTTTAA GATGAGTTTT AGAGCCTGAT 180 TGACCACCTC AGCACTTTTA TTTGGAATCA ATCGGATGAT CTGATGTCTA CTCTTTCGAT 240 CCGTCAAGAC AATCAAGCAG TAGTTTTTCG ATCTCGTAAG TAGAACCGTA TCAATCTCAT 300 AATGCCCATT CTCCAAGCGA AGATTGATAG CTTCAGGCCG CTGTTCGATG GATTGACCAG 360 CAGGTTTAAA GTTGGTGCTA GCCTGTTTCT TAAGCGCTTT TCCTTTTCTA GGGTAAAGCA 420 AATCCTGCTT GCTTAACCCC AATTTTCCAT GATGAATCCA ATAGTAAATG GTTGAAATTC 480 CCACGTTAAC CCCTTTAGCC ATAACCATCA TTTCAGGCGA AAATTTTTGG TTATGATAGT 540 GGAGAATCTT TTCCTTTAGT TCCTTGGTCA AGCTTGATTT CTTGACCGAG CGCTTGCGAT 600 TGTTTCATA AGACTGTTGA GCGTAGTCGG CAGAATAAAC CTCTTTGAAG CGCCCTTTTC 660 CAAGACATTG TCGGACTGTC CCACGCTTGA TTTCAGTGTG ATAGTTTGAG GAGCTTTTCC 720 AAGTAGAGAG GCAATTTCTC TATTTGATTT TCCTTCTTTT TTCCATCTTT CGATTAAGCG 780 ACGGCTATCG ATTGTCAAAT GTTTGGCTTT TGTAGTATAA TTGTCTTGCA TCTCTGTGCC 840 TTTCTTGTGT TTGTGGTTGA ACAACAAGTA TAACACAGAG GTGCTTTCTT ATGCCTACAA 900

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GAGCTTTCAT	TATTTCCATT	TTCTTTTGGA	TTTCACTCTA	TTCTGAAAAA	CTTGTGTATA	960
TTTACTGAAG	CTAGCAAGTC	TTACCTGTAA	ATTTAATGAA	AGCAACACAA	AATCCGAGAG	1020
GGGAATCTCG	GATTAATAGA	TAGAGAGTTT	TTAGTTTAAA	TAAATTGTTT	AAAATATCAA	1080
CAACATCACT	TCTTTTCTTA	ACCTGATAAG	TCTTGATTCC	TAATTTTGGG	GCTACGATTA	. 1140
PATTGTCCTC	AATATCGTCT	AGAAAGACAC	AATTTCTAGG	TTATAACTGG	TATTTATCGA	1200
TAGTTACTCA	TATACATCAG	TCCACCTCCA	TACTTATGTG	CGAGCCTCTC	TTTGTATTAT	1260
ACCTCCATAC	TCACCTTACA	GATTCTTTTG	GTAATAATAT	CTTTGCCTAA	TGTAGAGACA	1320
GTCTTGCAAA	GAAAAAACTT	CCTTGTAGCC	ATGTTTCTGA	TAAAAGTCCG	GTGCCTGGAA	1380
CTGGTAAGTA	TTGACAAAGG	CAAAACAACA	ATTTCGATTC	TTAGCTTCAC	TTTCTGCCTG	1440
TTGCAATAGT	TTTGAACCGA	TTCCTTGCCC	TCGCAGTTCC	TCTTTTACAA	ACAAATACTC	1500
GATTTCTAGC	CAATTTCCAA	AAGTCTCTGC	TATCAAACCT	GCCAGGAGAT	TGCCCTTTTC	1560
ATCTTCGACA	TAAAGATTAA	GTGGCTCACT	TTCAGCCTCT	TCTCTTTTTG	AACGGTTATA	1620
AACACGAATC	AGATTCCCTA	TTTCTTGCGA	TTTATGTGAT	TCCTTATTTT	ССААТСТААА	1680
GTATAGTGAA	ATGAAATAAA	ACATGCGCAA	ATCGATTAAG	GAATTTAATC	TAATTTCTAA	1740
CAATGTCTTA	GAAATCAAAG	TGTACTATTT	TAACTTCAAT	GCACTATACA	TCTAATACTC	1800
OTAAAAATC	AAAGAGCAAA	CTAGGAAACT	AGCCGCAGGT	TGCTCAAAAC	ACTGTTTTGA	1860
GGTTGTAGAT	AGAAcTGACG	AAGTCAGCTC	AAAACATAGT	TTTGAGGTTG	TAGATGAAAC	1920
TGACGAAGTC	GGCTCAAAAC	ATGGTTTTGA	GGTTGTAGAT	GAAACTGACG	AAGTCAGCTC	1980
AAAACAGG						1988

(2) INFORMATION FOR SEQ ID NO: 269:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 709 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 269:

CCGGATATTT GTTTTATGTA ATTTTCTTGC AAGTTTCTTC TTAGTAGCTT GTCAGTCAGG 60 TTCTAATGGT TCTCAGTCTG CTGTGGATGC TATCAAACAA AAAGGGAAAT TAGTTGTGGC 120 AACCAGTCCT GACTATGCAC CCTTTGAATT TCAATCATTG GTTGATGGAA AGAACCAGGT 180 AGTCGGTGCA GACATCGACA TGGCTCAGGC TATCGCTGAT GAACTTGGGG TTAAGTTGGA 240

AATCTCAAGC ATGAGTTTTG ACAATGTTTT G	1300 ACCAGTCTT CAAACTGGTA	AGGCTGACCT 30	0
AGCAGTTGCA GGAATTAGTG CTACTGACGA GA	AGAAAAGAA GTCTTTGATT	TTTCAATCCC 36	0
ATACTATGAA AACAAGATTA GTTTCTTGGT TO	CGTAAGGCT GATGTGGAAA	AATACAAGGA 42	0
TTTAACTAGC CTAGAAAGTG CTAATATTGC AC	GCCCAAAAA GGGACTGTTC	CAGAATCAAT 48	0
GGTCAAGGAA CAATTGCCAA AAGTTCAATT AA	асттесста астаататс	GTGAAGCAGT 54	0
CAATGAATTG CAGGCTGGAA AAATAGATGC TG	GTTCATATG GATGAGCCTG	TTGCACTTAG 60	0
TTATGCTGCT AAAAACGCTG GCTTAGCTGT CC	GCAACTGTC AGCTTGAAGA	TGAAGGACGG 66	0
CGACGCCAAT GCCGYTGCTC TTAGAAAATA GT	IGATGATTT GAAAGAAGT	70	9
(2) INFORMATION FOR SEQ ID NO: 270	: .		
(i) SEQUENCE CHARACTERISTICS:	-		

(A) LENGTH: 1680 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 270:

TATAAAATGT TAAGTTAAAT GATTTCAAAA TTCAGAAAGG GATTGCTTTA TGCAGTTCCT 60 TTTTATTTTA ACAGGAGTGA AACTATAGTG TTTCTAAATT GTGAATCAAT CAAAACTGAT 120 TGTGATGGGG CTATTCTAGC TTTAGAAACC TTCAAAAATT AAAATTTAAG GCAATCAATT 180 ACTTGGAAGA GTATGAAAGC ATTTAGTTTA TAGGAATTCT AGGTCTAGAA TTACATATAT 240 ATATTTATGA AGACGGGGTG TTCGATAGTT AGTATTGTTC TATTCTGAAA GATTTGAGCT 300 GTCAGTTGTA TAGAAAGTGT TCGAATTTTT TTAAGTGATT AAATTAGTTA ATTGTATGAG 360 GTGCTTTATG ATATAATGTT CTTAATGAAT TTTCAGAAAG GAAAACCTCA AATTGTTCTA 420 CAAATTTCTA CTCTTCGACC TCGACCACAC TCTTCTTGAT TTTGATGCTG CTGAGGATGT 480 GGCTTTGACC CAACTTCTAA AAGAAGAAGG AGTTGCGGAT ATTCAGGCTT ATAAAGATTA 540 TTACGTTCCT ATGAACAAGG CTCTCTGGAA AGACTTGGAG CTGAAGAAAA TCAGTAAACA 600 AGAGCTGGTT AACACGCGCT TTTCTCGTTT ATTTGCTCAT TTTGGACAGG AAAAAGACGG 660 TAGTTTTCTT GCCCAGCGTT ACCAATTTTA CCTCGCCCAG CAGGGACAAA CACTATCGGG 720 CGCTCATGAT CTCTTGGACA GCCTCATTGA GCGTGATTAT AACTTGTATG CTGCGACAAA 780 TGGCATTACT GCCATTCAGA CAGGACGTTT GGCTCAATCT GGTCTAGCAC CTTATTTCAA 840 TCAAGTCTTT ATCTCAGAAC AGTTGCAAAC TCAAAAGCCG GATGCTCTTT TTTATGAAAA 900 GATTGGCCAG CAAATTGCTG GATTTAGTAA AGAAAAGACG CTGATGATTG GAGATTCTCT 960

1301

AACCGCCGAC	ATTCAAGGTG	GCAATAATGC	GGGGATTGAC	ACTATCTGGT	ATAATCCTCA	1020
TCACCTCGAA	AATCACACAC	AAGCCCAGCC	GACTTACGAA	GTCTATTCTT	ACCAAGACTT	1080
GCTGGATTGT	TTAGATAAAA	ATATTCTTGA	AAAGATCACA	TTTTAAAGGA	GACGAGCTAA	1140
TGACTACAAA	AĄAGCTAATA	TTACTATTGA	AGAGTACATT	GAAATGTCTG	AAGTTGATTT	1200
TÄATGAAGCT	GTTAATTATG	AATTTACATC	TGACACTTGT	CAATTAGCAA	ATAGTATTTA	1260
TCAATCTCTT	TTTAAGTTTT	TTGATAAGAA	AAATTTCTCT	GGCGATTTAA	TTTTTACTTG	1320
GAAATCTCCA	TCATTAGTCA	AAGAAGGGGA	TTATATTGGG	AGAAGGGATT	CACAAGTAGA	1380
TAATCTTAGA	GTAATAGGAA	ATATATTTCC	GAATTATCTT	ACTAATCGAA	AATATAGCCT	1440
CAATATGAAT	CGTAATGGCT	GTATGGGAGA	TTTTCCTCAT	GACTTTTTTG	ATATATACCT	1500
AGATCATGTA	GCAAAATATG	CCTACGAACA	AAAAGTTAAT	AATATTAAAG	AGTATTATCC	1560
TTTAAAAAGA	GCGATTTTAC	ACCAAGAGAA	TGCATTGTAT	TTTCGATTTT	TTTCTAATTT	1620
TGACGACTTT	TTAGAAAAAA	ATTATTTAAA	GACTATATGG	CAAGTTTCTA	AAGAAACTCC	1680

(2) INFORMATION FOR SEQ ID NO: 271:

(2) INFORMATION FOR SEQ ID NO: 272:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 598 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 271:

AGCTCGGTAC	GTAGTATnTG	TGGTGCATAA	ATGAGTGAAA	AGAGGATAGA	GAGGATGAGG	60
CCGATAAGAA	CACCGGTAGC	TGCATCGTGA	AATACTTGTT	TTTTCATAGT	TCTAATTTCT	120
CCTTGATGGT	TTTTAGATAA	CGGCGTGAAG	AGTAGGTGAA	GCTTTCGTTT	TTCAAGAAAA	180
TTTCTACCAG	ACCGTTTGGC	GTGAgCTTGA	GGTGAGAGAT	GGAATCGATA	TTGATGATTT	240
CTGATTGGGÀ	AATTTGGATA	AAATTGGTTG	GCAAGAGTTT	AAGAACCTGA	TAGAGTCGCA	300
AATCAATGCT	GTAGGTCTGA	CTCGCGGTTT	CTGCTAGAAC	CTTCCGATTC	TCGATATAGA	360
AGCGCTGAAT	CTTGCCAATC	TCAACTAGAT	AGACCTGATC	ATCGATTTTT	CCTTTGATTT	420
TTTCTCTTTG	GTCCAGATTT	TCTGCGAACT	CGATGACTTT	CTGGACTTTT	TCGGTTTCTT	480
GAGGTGCTTG	GACAATCAGC	TTTTCCTCCT	CGTAAGTCTC	ACTAATCTGT	AGTTCTACTT	540
TCATAGTTTT	CTCTCCTTTT	CAGTTATACA	AGGTTGTGAT	CACTTCCTGT	ATATCCGG	598

1302

1: \	CDOLUMICH	ATT	
111	SECULINCE	CHARACTERISTICS:	

(A) LENGTH: 1099 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 272:

CCAGCAAATC AATAACTG	CA ATTGCTATAA	AATGGATTCT	ATAGAGTTTT	TTCATGACAA	60
GACCTCCCTC TTTTATCT	АА СТТСАТТСТА	CTCCAAAAGA	ATGGGAGTTA	CAACTAAAAT	· 120
GATAAAAATA GCAGAAGG	GA GATTCTCTTA	AGTTGGCTAG	TATTCTTTAT	TTGAGTTTCC	180
ТТСТАТТАТС ТААСТТСТ	TC ATCATTCCAG	ACAAATAAAG	CTCCGATTGC	ATTGAGGATA	240
TAAAAGATGT ATTTACCG	AT ATTGGCGAAG	TTTCCTTGAA	TACCAGCTTT	TGTCAGCTGA	300
ACGAAATTGT AAATCAAC	CA AAAGCCCCAC	TGAGTTGTTA	GTTTTAATGC	ATTCAAAGCA	-360
TTGGCAATGA GGGACAGT	GC AAAGGCAATA	GTTGTTACGT	AGGCAAGGAG	ATTCATCTTG	420
CCCCCATATC CGATATAG	TT GGTCACAAAG	GCAAAGAGGA	AGGCGATGAT	GGAAATGATG	480
ATGGCCGCCA ATTTTACC	TG TTTTTGGCTC	ATTTGGTTGG	GTCTGCCTTC	TTGCGAAGCT	540
TCCCACTTCT TTATAGCA	aa ggtataaatg	AGGAAGGTGA	CGGGATAGGT	AATGATGGCC	600
GCCTTATTTC CAAGGATA	TA ATCAATAGCA	CCGGACAAAA	TGGTATTAAC	AATACCAAAG	660
TAATTTCCCC ATTTGCTT	AA TTTCCCCGTG	AAACGAGTGG	ACAACATGGA	AATCCCAACG	720
TTGGTTACGG AAATCAAT	CC AAAGGGTACA	AGAGCTGTCC	ATGATCCCCA	GTCTACAAAT	780
TTATCGAGGT GTGAGTTG	AG GTAACCAGAT	GCAATCGCAA	TCCCAACGAC	CAAAGCAACC	840
CCGAAGAGGT CAAACTAT	PT AGATGTAGCA	AAAATTTTTA	GTGATTTTTT	CATAGGTTAA	900
ACTACCTTTC TTTTTTTC	AA ATATTCTCCC	ACCAAATGAA	AGTAAAATAA	AATGATAGAA	960
ATAAAACCCT GAAAATAA	AG GTTCTATAAT	ATTTGTAGTG	GGTAAATCCA	CTATAGATAT	1020
TATGGAGCCT ATTTATT	GT AGAAAAAAAG	TCCCATATGA	CCTATAATGA	AAAGCGACAA	1080
AACAACTCAT TAGAAAGA	r		-		1099

(2) INFORMATION FOR SEQ ID NO: 273:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2723 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 273:

1303

CTGGGATTCA	CGTGAAAAGG	AAGCCCAGAG	AGTAGCCAGG	TGTACTGCTA	GAACAGTGAG	60
TGAAATTGAA	TATTACCATA	GAGAGTCAAC	CCAGATAGCT	CAGGCTTTAG	TTGAAAATCA	120
AGCTCGTATC	GAGGGAATCT	ATAAATACTT	TAGCCTTAGC	ATGCCAGACT	ATTTTTACTG	180
GCAATTAGAG	CGGAAAGCTT	CGCCTTATAT	ATCAGTCTCT	CTGTATGAAA	ATGTTGATGA	240
CCTCTATGTT	CGAAATGATT	TTGTAACTGG	GGTGGCCATT	GCTTTTCAAG	ATTACAAGGA	300
AGTCTATGTT	TCTACTAAAG	ACAAACGTAG	Gkkagaaaaa	ATCAGGGCTG	AGGATTTCAA	360
ACCAGCAGGA	AATAGTTTTG	CCATTCCAGT	GTCAGATCCA	GTGTCAGATC	AAGACTTAGG	420
AGTGATTTAC	ATCTCCTTGG	ATCCTGCTGT	TTTATACCAT	GCCATTGATA	ATACTAGAGG	480
TCATACTCCG	ATGGCAGTAA	CAGTGACCTC	ACCTTTTGAT	ACGGAGATTT	TTCATATGGG	540
TGAGACAGTT	GATAAGGAGA	GTGAAAATTG	GCTAGTTGGC	TTAACTTCTC	ATGGATATCA	600
GGTTCAGGTG	GCAGTTCCTA	AAAACTTTGT	TTTACAAGGA	ACAGTGACTA	GCTCTGCTTT	660
GATTGTGGGT	TTGAGCCTTC	TCTTTATTGT	CATTCTTTAT	CTGACTTTGA	GGCAGACTTT	720
TGCTAATTAC	CAAAAGCAGG	TAGTGGATTT	AGTAGAATCC	ATTCAAGTCA	TTGCTCAAGG	780
CGAAGAGGGG	CGTCGGATTG	ACATTTCCGA	GAAAGATCAG	GAATTACTCC	TAATCGCGGA	840
GACGACCAAT	GATATGTTGG	ATCGATTGGA	AAAGAATATC	CATGATATTT	ACCAGTTAGA	900
GCTTAGTCAA	AAAGATGCCA	ATATGCGAGC	CTTGCAGGCG	CAAATCAATC	CTCATTTTAT	960
GTATAATACG	CTGGAGTTCT	TGCGCATGTA	TGCAGTTATG	CAGAGTCAAG	ATGAGTTGGC	1020
AGATATCATT	TATGAATTCA	GTAGTCTCTT	GCGTAACAAT	ATTTCCGACG	AAAGAGAGAC	1080
CCTCCTCAAA	CAGGAATTAG	AATTTTGCCG	TAAATACAGC	TATCTCTGCA	TGGTTCGCTA	1140
TCCCAAGTCC	ATTGCCTATG	GTTTCAAGAT	AGATCCAGAG	TTAGAGAATA	TGAAGATTCC	1200
CAAGTTTACC	TTGCAACCGC	TGGTAGAAAA	CTATTTCGCG	CATGGTGTTG	ACCACAGGCG	1260
GACAGATAAT	GTGATTAGCA	TCAAGGCTCT	TAAACAGGAT	GGTTTTGTGG	AAATTTTGGT	1320
GGTCGATAAT	GGTAGAGGAA	TGTCGGCTGA	AAAGTTGGCA	AATATCCGAG	Aaaaattaag	1380
TCAGAGATAT	TTTGAACACC	AAGCCAGCTA	CAGTGATCAA	AGGCAGTCTA	TCGGGATTGT	1440
CAATGTACAC	GAGCGTTTTG	TGCTCTATTT	TGGAGACCGC	TATGCCATTA	CTATAGAGTC	1500
TGCAGAGCAA	GCCGGTGTTC	AGTATCGTAT	TACAATTCAA	GATGAGTAGA	AAGGGAGAAA	1560
atgtataaag	TATTATTAGT	AGATGATGAG	TACATGGTGA	CAGAAGGTCT	GAAGCGTTTG	1620
ATTCCCTTTG	ATAAGTGGGA	TATGGAGGTC	GTCGCAACAG	CCAGTCATGC	CGATGAAGCT	1680
CTAGAATATG	TTCAGGAAAA	TCCTGTCGAT	GTCATCATTT	CCGATGTCAA	TATGCCAGAC	1740

			1304			
AAAACAGGGC	TTGATATGAT	TCGGGAGATG	AAAGAGATCT	TACCAGATGC	TGCCTATATC	1800
CTGCTCTCAG	GTTATCAGGA	GTTTGATTAT	GTAAAAAGAG	CAATGAACCT	TAGTGTGGTG	1860
GACTATTTGG	TCAAGCCTGT	TGATAAGGTA	GAGCTGGGAA	ATCTGCTGGA	GAAGATTGCA	1920
GGTCAGCTCG	GCGAGAGAGG	GAAGAAAAGT	CAGACTCTTA	GTCAAGAATT	AGACGAGGCT	1980
GGATTTGTTA	GTTATTTAGG	GGATAAGGAG	AATTGGTGGA	TAGGTCTATC	CAAGGAAAAA	2040
CAAGGTTCCT	TCACCATTCC	CTACTATGTC	TTGGGTCAAG	ACTGGCAGAT	TTTCATTTCT	2100
GGCCACCCCC	TAGATGGTTT	AGTCGTTACA	CCTTTTGAAG	CTCCTTATCA	AGAACACTTT	2160
GAACGCTGGA	AGCTGAATGC	TGAGAAAACC	CTCTTTTACG	GTTCTGTAAA	TCTGCAGCAG	2220
TCTGAGAGTC	TCTTTGCCTA	TTACGAACCG	ATTTATAGGG	TTATCATTCA	GGGAAATCTC	2280
AATCAAATCG	TAGAAGAGTT	AAATCTCTTG	GAGAAGGTAG	TTCTTGAAAA	TACACCTCGT	2340
GTTTCGATTA	CTAAACAGCT	TTTTATCCAG	TTTGTCATGG	ATGTTTTCCA	TTTATTTGAA	2400
CATCTCAAAG	CTGATGATAT	GACGGACATT	GTCAAAACCA	TTCATGCTAT	TCAATCCTTC	2460
GATGAATTGG	TTTCTTATAT	CAAGGAAACT	CTGATCAGCT	TTTTCGGTCA	ATACCGTATG	2520
AATGAAAATG	TGGTCAGTGT	GCTGGAAGTC	ATTGGTCGTG	ATTACCAAAA	AGAGCTTTCC	2580
CTCAAGGATA	TCAGTAAGGC	CCTCTTTATC	AATCCTGTCT	ATCTAGGGCA	GTTGATTAAG	2640
CGTGAAACCG	ATTCGACCTT	TGCAGAGTTA	СТАЛАСАЛАС	AACGTATTAA	GGCTGCCCAG	2700
CAGCTCTTGC	TTTCAACTAG	TGA				2723
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(2) INFORMATION FOR SEQ ID NO: 274:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 836 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 274:

rtt 60	GCAAGAT	AAAAAAGAAT	AGCATAGTCA	ATATAAGTAT	TTTAAACCGT	CCGCAGTTTT
PTGA 120	CAGGACT"	GTTCTACTGT	TTCTTTTAAA	TTCGTAATTT	TTTAAAATTT	TGCAAACTTT
AACT 180	AGATTTA	CTACATCACT	TAAACATCAT	TCCGGCGATA	CAACCTGTTC	CCTTGCTTAA
rggt 240	CCCTTGT	GATGAATTTT	TGAGGTTGGA	CATATTTTCC	GGTGAGACAG	GCATAAACCA
CATT 300	ATTTTCC	TTCCTATCTG	ACTTCCAGAC	TTGCTTGCCG	GAAAATCTGC	TGAATGACCA
CTGG 360	TGGAAAC	CTGTTTCGAT	ACCTTGAGAG	GATTGTCAGT	TAGCCCCTTC	CCAAGGACCT
CATA 420	CTCAAAC	TCCTTCCTTC	AGAGCTGCAG	CTTCTGAAGA	CACTTTTCAT	CTGGCATCCC

1305

TCTAGATTG	T TATTGGAAGC	AACCGAGTCA	GTCGCAATTC	CGACTGCTAC	TCCCGCTTTT	480
TGGAGCTGG	A TAATTGGAGC	AATTCCTGAT	GCCAGTTTGA	GGTTACTGAT	AGGATTGTGG	540
GCGATAGCn	a cttgagaaga	TGCCAAGCGT	TCAATTTCTC	TCTCGTTTAA	TTCGACCCCG	600
TGAGCAAAT	A CGGACGGATG	АТСТАААТАА	CCCAGTTCTT	CAAGAAAAGC	AAGGGGCGT	660
TTGCCGTAT	C GTTTGAGGAT	AATTCCTGAC	TCCTCCTTGG	TCTCCGCCAC	ATGGACATGG	720
AGCGGAATA	T TTAGCTCTTT	TGCCATTTCC	AAACTCGCTT	CCAGCAAGTC	TCTACTGCAG	780
CTATACGGA	G AATGAGGTGC	TACCATAACC	TTGAAATTTG	GATTTTTATA	TTTTAA	836

(2) INFORMATION FOR SEQ ID NO: 275:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 275:

60	GACCATGGGA	ATAGCnTCAA	СТАТТСТТАТ	TGGTCTGGGG	ACTTTTTAGG	ATTTTATTTC
120	ATATACTAGT	ACATTGACAA	CTGGGTTTTT	TGGAGATCGC	AACAAGCTGC	GACGGTTTAC
180	GTCTAGTTCT	CTCTAATTCA	GGGATGACTG	GGTTGGTATT	TTGGAGTTCT	AATCCTTTGT
240	ACGTCAGGCT	TCTTAACCTT	AGTGCCGGTC	CGGCCTGGTC	TTATCACAGT	GGTGTAACAG
300	CATCGGTTTT	CATCCTTTCT	ACAACTGTCA	TAATATTGGG	TCATGGGTGC	ATCGGGATTG
360	TTTTTTTACG	CCGTCTGTCT	TTTATCGGTG	ACCTATGCTC	ACTATGCCCT	AAATTAGGTA
420	TATCTTTTTT	GTGTCGGTGG	ATCCTCTTTG	TATCGGACGC	CAGTCAATAA	AAAAATCGGA
480	CTTTAAGGAC	ATTTACAGGT	CCACTCAAGG	CGCAATGGCT	TCATGAGCGG	GCCCTCAATC
540	TGGCTTGACC	TTGTCGGTAC	TTGGGTGTCT	GAATCCTGTT	AGCTAAGTAA	TATATGATTG
600	CGCCGGCAAT	AAAACCTCTA	GGGATTTTAC	GGCTACCATT	AAGCTTCTTC	TTGCTAATTC
660	GACAACCATT	ACAATATCGG	CTATTTGGTG	TTTGCCAGTT	TACAGGGAGC	CTAATTGATC
720	AGGAGCTCAT	AACGGGTAGC	ATTGCAGCTA	AGGGGCTAAT	TTGCCTCTTT	ACAGCCATCA
780	TTTTACTGTC	TTCTAGTTCC	TGCGTTATTT	AACAGTTGTC	ACGTTATCGG	GTTGCCTTCA
840	CGCCTTTGCT	AAATGACCAT	CTAGCACCGG	TACGCTAAAT	GGTTTGAAGC	CTGATTCATT
900	AGCTCTGGCT	CATTTATCGG	GTCCAATTTC	CAACACCATT	TTAATATTAC	CACGGAACCT
960	ACCCTTATAT	TCAAATACGA	GACGAGGTTG	TCCTGGAGAG	CCAAGATTAT	TACTTTGTAA

			1306			,
CTTGATGAAC	ATTTCATCAA	ACAGGCCCCA	TCTATCGCTC	TAGGAAATGC	TAAGAAAGAG	1020
CTCTTGCACT	TAGGAAACTA	CGCTGCTAAA	GCCTTTGACC	TTTCCTATAA	GTACATCATT	1080
GACTTGGATG	AAAAAGTTGC	TGAAAAAGGG	CATAAAACCG	AAGAAGCAAT	TAACACCATC	1140
GATGAGCAAT	TAACACGTTA	TCTCATTGCC	CTTTCAAGCG	AAGCTCTCAG	CCAAAAAGAA	1200
agtgaagtgc	TTACCAATAT	CCTTGATTCC	TCCCGTGATT	TGGAACGGAT	TGGAGACCAC	1260
ACGGAGGCTC	TACTCAATCT	GACTGACTAT	CTTCAACGGA	AAAATGTTGA	ATTTTCTGAT	1320
GCCGCCTTGA	AAGAATTAGA	GGAAGTTTAC	CGCCAAACTA	GTGACTTTAT	CAAAGATGCT	1380
CTGGATAGTG	TGGAAAACAA	TGATATTGAA	AAAGCACGCA	GTCTTGTAGA	ACGTCATGAA	1440
GCAATCAATA	AGATAGAACG	TGTTCTCAGA	AAAACCCACA	TCAAACGCCT	CAACAAAGGC	1500
GAATGTTCAA	CACAAGCTGG	GGTCAACTTT	ATCGACATCA	TCTCACACTA	CACTCGTGTA	1560
TCAGACCACG	CTATGAACCT	TGCTGAAAAG	GTTTTTGCAG	AACAAATCTA	AGAACCAAGA	1620
AGCTATCCAT	CATAATTGGA	TGGCTTTTTA	CTTTTTCCTA	AGCAAGACTA	GGATGAATGA	1680
AACTGAAAGA	GTATTCTGCA	GATATATAGT	CCCCAATTAT	TCACCCCAAA	TCTAAAAACC	1740
ATCCAGAATC	CTTGCCTTAG	CTTAGATCCT	GGATGGTTTC	TTTTTTCACC	CAATGGGTGT	1800
ITTTTACTAG	ACAAAAAAGA	GTTTCCCCTT	TATGGTATAA	GTGTAGAAAA	AAACACAAAA	1860
AGAAAGGAAA	CTCACATGAA	CAGTTTACCA	AATCATCACT	TCCAAAACAA	GTCTTTTTAC	1920
CAACTATCTT	TCGATGGAGG	TCATTTAACC	CAGTATGGTG	GTCTTATCTT	TTTTCAGGAA	1980
CTTTTTTTCCC	AGTTGAAACT	AAAAGAGCGG	ATTTCTAAGT	ATTTAGTAAC	GAATGACCAA	2040
CGCCGCTACT	GTCGTTATTC	GGATTCAGAT	ATCCTTGTCC	AGTTCCTCTT	TCAACTGTTA	2100
ACAGGTTATG	GAACGGACTA	TGCTTGTAAA	GAATTGTCAG	CTGATGCCTA	CTTTCCAAAA	2160
ITGTTGGAAG	GAGGGCAGCT	TGCTTCACAG	CCAACCTTAT	CCCGTTTTCT	TTCCAGAACT	2220
GACGAGGAAA	CAGTCCATAG	TTTGCGATGC	CTCAACCTTG	AATgGkCGAA	TTCTTTTAC	2280
AGTTTCACCA	GCTAAACCAA	CTCATTGTAG	ATATCGATTC	TACCCATTTC	ACAAC	2335

(2) INFORMATION FOR SEQ ID NO: 276:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 752 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 276:

CGGATTCACT GTTGTTGACT AATCAATAAC ACAGTAGAAA ATCTCACAGC AGTCTATTAG

1307

ГTG	CTTTTCA	TACTAGGCAA	GTGACTGAGG	CTTGTACTTG	GGTACAGCAA	GGGAGCTTAA	120
GGC	CGTAGAA	GAGÀAAAATA	GTAGACTGAA	AACCCGCAAG	ACTTCATCAT	TTCGAGAAGT	180
GAC	GTGGGAG	ATGAAAATCG	ATTGAACCAC	TTACAAGGAG	AATAGAAAAT	GGCTAAAAA	240
AGC	AAACAAC	TTCGTGCTGC	TCTTGAGAAA	ATCGACAGCA	CAAAAGCATA	CAGTGTAGAA	300
GAA	GCTGTAG	CACTTGCAAA	AGAAACTAAC	TTTGCAAAAT	TTGATGCAAC	TGTAGAAGTT	360
GCT	TACAACT	TGAACATCGA	CGTTAAAAAA	GCTGACCAAC	AAATCCGTGG	AGCAATGGTA	420
ГTG	CCAAACG	GTACTGGTAA	AACTTCACGT	GTTCTTGTTT	TCGCACGTGG	TGCAAAAGCT	480
GAA	GAAGCAA	AAGCTGCTGG	TGCAGACTTT	GTTGGTGAAG	ATGACCTTGT	TGCTAAAATC	540
AAC	GACGGTT	GGTTGGACTT	CGACGTAGtT	ATCGCTACAC	CTGATATGAT	GGCTCTTGTT	600
GGA	CGTCTTG	GACGTGTCCT	TGGACCACGT	AACTTGATGC	CAAACCCTAA	AACTGGTACT	660
GTA	ACAATGG	ATGTTGGCAA	AGCGGTTGAA	GAGTCTAAAG	GTGGTAAAAT	CACTTACCGT	720
CT	GACCGTG	CAGGTAACGT	TCAAGCAATC	AT		•	752

(2) INFORMATION FOR SEQ ID NO: 277:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2643 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 277:

GTCAACATTG	ATTTCAAGGC	TGTTTGCTTT	CTATCTCCCC	TTTTTCATAA	TGTATAATAA	60
AATGAAATAA	TAACAGGACG	AATTGATCGG	GACAGTCAAA	TCGATTTCTA	ACAATGTTTT	120
AGAAGTAGAG	GTGTACTATT	CTAGTTTCAA	TCTACTATAT	TTTCGTACAG	GTGCTTCAAC	180
CATTTGAACG	ATTTCAAATC	CTTCTTTTTG	GTAAAGATTC	TGAGCTCTTT	GATTTGCCTC	240
GAAGACATTT	AGAGAAATAC	TGTCTATATC	TCTATTTTCA	AATGCTAAAC	ТААСАААТТТ	300
CCTTAÄAGCC	TTGCTACCTA	AGCCTTGCTC	CTGTTTCTGG	GGGTTĞĀTAA	AAAATCTCCC	360
GATATGAAGA	TTGCTGTCTT	CTAGCCTGAT	TTTCTGGATA	AATCCCACAA	ACTCTTGTTC	420
ATCAAAGATT	GAAAAGACTC	CTTCCAAGGC	TTGAAGTGTC	AGTAGAAAAG	GAATCCTTGG	480
TCCCATCCAT	TGTTCTTGAA	AGGATTTGCC	TAGGGAGTTG	GACCACTGGC	ATACAAATTG	540
AGCGTTTTCT	GTGCTCACCT	TTTCTTCAAA	ACGAATTGTC	ATCTTTTCCT	CACCACCTTA	600
TCTATGTTTC	TCCATTATAC	TATTTCTCCC	ATTTTTTACG	AATAGATAAG	TATGATTGAT	660

			1308			
TTTTATTTT	TTCTCGTCGG	GAGCATTCTA	GCTTCCTTTC	TTGGTTTGGT	CATTGACCGT	720
TTTCCAGAGC	AATCCATTAT	CAGTTCAGCC	AGTCACTGCG	ATTCCTGTCA	GACTCCCTTG	780
CGTCCCTTAG	ATTTGATTCC	GATTCTCTCA	CAGGTCTTCA	ATCGCTTTCG	CTGTCGCTAC	840
TGCAAAGTTC	GCTATCCTGT	CTGGTATGCC	CTCTTTGAAT	TAAGCTTAGG	ACTCCTCTTT	900
CTGCTTTACT	CTTGGGGATG	GCTCTCCTTG	GGGCAAGTCG	TCCTAATCAC	CGCTGGTTTG	960
ACCTTGGGTA	TCTACGACTT	TCACCATCAG	GAATATCCCT	TACTGGTCTG	GATGACTTTC	1020
CAGCTAATCC	TAATAGCTTC	CTCTGGCTGG	AATCTGGTCA	TGGTCTCCTT	CCTCATACTT	1080
GGAATTTTGG	CTCATTTTAT	CGATATCCGC	ATGGGTGCAG	GGGATTTCCT	CTTTTTAGCT	1140
TCTTGTGCTC	TCGTCTTTAG	CGTAACGGAG	TTACTGATCT	TGATTCAGTT	CGCTTCTGCG	1200
ACGGGTATCC	TGGCCTTTCT	CCTGCAAAAG	AAAAAGGAAA	GACTTCCTTT	CGTGCCTTTC	1260
CTCTTACTTG	CTACTTGTTT	GATTATTTT	GGTAAGCTAC	TGCTTGTCTG	ATAAAATCCA	1320
ATTTCTGCCA	TATATCCTTC	ATGAAATTAT	TTCACAGTTA	ААТТАТААТ	TATTTCTTTT	1380
GTACAAAGGG	ATGATGTTAT	CAAATCGATC	TGTTCTTCTA	TCTTCTTGAT	ACTGATCAAA	1440
AAATTTCATT	TCGACTGAAA	ATATTTCGCT	TATAAACTGT	AAACGAATAC	TTTGTTTAGA	1500
CATTATAGTC	GCTAGACTGA	CTAGATGATT	ACTCAAAACG	ACGTCCAGAA	TACTCTTTAC	1560
TTTGCTTGGT	TTTTTAACAA	AAATTTGATC	ATCCAAGGGT	TCAATCATTT	TGTAACCTTT	1620
TTGCGCAATT	TGACGATAAA	AGTAAGAATG	TTGCTTTGGA	GTCAATAATC	СТААСТТААА	1680
AGCTCGATAC	TCTAAAGCCT	GTATCGAAAC	ATTCAAATCC	GACTTCAATA	AAATATAACT	1740
ATCAGGATTG	CTGACACGCT	TGCCAACCCT	CTCTTCAAAT	TTGACTAAAA	ACTCTTCTTT	1800
TGGCAATAAA	AAACATGATG	CAAAATAATT	TGCTTCTTGC	TCCAAACGAT	CGCCATCTTC	1860
ATTCATATCT	TTATATTTAT	GTAAAAGAAT	ATGTCCTAGC	TCATGAGCTA	AGTCAAAATT	1920
TCGACGTACA	GATGATTTAT	TCGTTCCTAA	CACAATATAA	GGTCTTCCCA	ATTTTGACCA	1980
TGCGCTATAA	GCATCAGCTT	GGCCATTAAT	TAATCGTTCC	ACGATATAGA	TGCCTGAACG	2040
TTCTAATTTA	TAAAGCAAAT	CATGATTATC	TTTTGAAA <u>T</u> A	CCTAATTTTT	CCCTGGCATA	2100
AAGAGCCAAT	TCCTCAATGG	ATTCTCCCTT	ATGATAAGAT	TCACTCACTA	CATTACTTAG	2160
GTCATGAATT	ATAATATTAG	GTATAATTAC	AAAACTTTCA	АААТААТСАА	TCAAACTATC	2220
TACCTTATGT	AAATACATAG	TTTGAATATC	TATTGTTTTC	CGTGTTGCTA	GGTCTGCATT	2280
TCTAAAGGCA	ATTACAGAAG	AATCAAATCG	AATGCTCTCT	TCTTCCTGTT	CAAAATAAGT	2340
TAAATCAACA	TGAAATTGGT	TGGCCAAATG	CATTTTGGTT	GATAATTTAG	GTTTCGTTTC	2400
GTTGGACTCA	AACTGCCAAA	TGGCTTGTTC	CGTTAAATTA	ATTCTCTGAG	CTAATTCTGC	2460

1309	
TCTACTTAAA CCATTTAACA GCCGTAATTC TTTCAATACC CGACCATTAA ACATTTACAT	2520
ACTCCTTACT ACTTTTGACC TTCTTGTTTT TCTATTCTTG GAATAATTTC AAAATCTTCT	2580
GTTTCCGATA ATTCTGAAAA ATTAGGAATA TCTTGATATT TAGCTTCTTC GAAATGGTAC	2640
GGG	2643
(2) INFORMATION FOR SEQ ID NO: 278:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 582 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 278:	
TGACCAGTGG CAAAATGGCT ATCCAAATGC AGATGTTATT ATCGATGATA TCATCTCAGG	60
GCAAGCCTAC GTAGCCTTGG AAGAGGGAGA ACTGCTAGCC TATGCTGCTG TGACCAAGAG	120
TCCAGAGGAG GCCTATGAAG CTATTTATGA GGGAAACTGG CAAGCTGGAG AGTCAGAGTA	180
TCTAGTCTTT CACCGTATTG CTGTGGCAGC AGATGTGCAG GGAAAAGGAG TTGCTCAAAC	240
CTTCTTAGAG GGCTTGATTG AAGGTTTTGA TTATCTTGAT TTTCGCTCAG ATACGCATGC	300
TGAAAACAAG GTTATGCAAC ATATTTTTGA AAAACTTGGT TTTAAACAAG TCGGTAAGAT	360
GCCAGTAGAT GGCGAACGCT TGGCCTATCA AAAATTAAAG AAATAATGCA AAAGAAGTAT	420
GTAAAAATCC TCTACTCCTC ACCAATTGGT ATTCTATCAC TTGTAGCTGA TGACCATTAT	480
TTGTATGGAA TTTGGGTTCA GGAGCAGAAG CATTTTGAGA GGGGACTAGG AGATGAAACG	540
ATAGAAGAAG TTGTWAGTCA TCCTATTTTA GACCCAGTTA TT	582
(2) INFORMATION FOR SEQ ID NO: 279:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 554 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 279:	
CCCAAGCTAC TAAGAGACTA AAACTTGCTA GAGAAGCAAG AGAAAGTGTG AATCTTTTTA	60
ATTTCATGAT GAATTTCCTT TCTGCTACCA ATTTAGAGAA ATTTTCTCTA ACCAGCAATT	120
CCCCTAGTAT AACAAGTTCA AAAAATGGAG TCAATTTATC TGCTCACGGT CCAGCAGGTA	180

1310	
GCCCCGTACT TCTGAGATAA AATAGAGAGA CCCTGTAACG AACAGCAAGT CTTGAGCGTC	240
TGCCCTTTCT TCAAAATCGC TGATAAATTC TCGGTAAGAA GAAACTATAT CGTAACCTGT	300
CACATCCCTT TCGTCCAAAG CCCCCTGATA GTCAAAGCCG GTCACCTTGA GTTCCACCTG	360
AGGCAATTIT TCAGTCAGAT AACCCAACAT CCCTTGATAA TCCTTACGTT TCAAGGATCC	420
AAAGAGGATT TGAGGTCGAT AGCCTTCCTG CTCTTTTTCT TTGATAAACT CAGCCAAGCG	480
AGTCAAGGCA GGGAGGTTAT GAGCACCATC CAAATAAATC TGTGGGCGAA TACGCTCCAA	540
GCGAsCAGCC CAAT	554
(2) INFORMATION FOR SEQ ID NO: 280:	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 280:	
CCGGTTTTTC AAATGAATTT CTTGGTTGTG GCTAAAAAAT ATGCTACACT ATCAATATGA	60
AAATTTTAAT CCCAACAGCA AAAGAAATGA ACACAGACTT CCCAAGTATC GAGGCAATTC	120
CTTTAAAACC AGAAAGTCAG GCCGTGCTTG ATGCCTTGGC TCTCTATTCT GCCAGTCAAT	180
TGGAGAGTTT CTACAAGGTA TCAGCTGAGA AAGCGGCGGA AGAATTTCAA AATATCCAAG	240
CTTTGAAAAG GCAAACTGCT CAACACTATC CAGCCTTGAA ACTTTTTGAT GGGCTTATGT	300
ACCGCAACAT TAAGAGAGAT AAGCTGACCG AGGCGGAACA AGATTATCTT GAAAATCATG	360
TTTTCATTAC CTCGGCTTTG TACGGTGTTG TTCCAGTCTT GTCACCCATG GCTCCTCACC	420
GTTTGGATTT TTTGATGAAA TTAAAAGTCG CTGGTAAGAC TTTGAAGAGC CATTGGAAGG	480

CAGCCTATGA TGAAACTCTG AAGAAGGAAG AAGTGATTTT CTCTCTTTG TCATCAGAGT

TTGAGACTGT ATTTTCTAAG GAAATCAGAG CAAAGATGGT GACCTTCAAA TTCATGGAGG

ATAGAGGCGG TCAGCTGAAG ATTCACTCAA CTATCTCCAA GAAAGCGCGC GGGGCCTTTC

TAACAGCTTT AATAGAAAAT CAAGTACAAA CTGTGGGGGA AGCACGTCGC TTGAACTTTG

540

600

660

720

766

- (2) INFORMATION FOR SEQ ID NO: 281:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 901 base pairs

CTGGATTTGT TTACCGAGAA GATTTGTCAC AACCACAGGG GGATGG

- (B) TYPE: nucleic acid (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi)	SEQUENCE DES	SCRIPTION: S	SEO ID NO:	281:		
			•			
CCGGCCACGG	TTCCATCCAA	CTTCACAGGT	GTGCACTTGA	TTGTGTATGT	AATTGTCACT	60
AACGGTAGAA	TTTCACCTAT	CCCTCCTATC	TGCTCGCAGT	ACCCGCAGAC	TTTCTGAAAG	120
AAGAAGATAA	CCTACTTATC	CGTTGCTATG	ATTATACTAA	AGTTTCTACT	TTTTTGCAAA	180
TAGATTTTTA	AATTTTTGGC	TAATTGTCTG	AATCAGGGTC	GGAAGTTTGA	CGACCTTGTC	240
ATTGCCTAGT	TTTTCGCGTG	CAATTTTGAG	AATGGCACCT	GAGTCTTTTG	AAGCAAAGAG	300
GAATTTTCCT	TTGTCTGTAA	AGACTTCGAA	GTGGCGGCTG	ATTTTGCGTC	CAGTGACATT	360
GGCTCCAATC	TGATTGATAT	GGCTCCAAGG	AATCTGGATA	AATTGTTCGA	CATTGACATC	420
TGGGTAAAAT	TCCAAAGCCT	GATCTCCGAC	AAGGAATTTC	CCAACTTTCC	CAGCGATAGA	480
GAGGTAGGAA	GTGCCTGTCG	TACTGAGGAG	TACTGTTTTG	TTAAGTGATT	GGGCCATGCT	540
TAGTCTTCCT	TACTTTCTCC	AAAAAAGGCA	TTGTAGAGGG	CTTTAATTGC	TGCTTTCTCT	600
TGGTCTTTAT	TGACAACAAA	CATAATAGAA	ACTTCACTAG	AACCTTGAGA	CATCATCTGG	660
ATGTTGATTT	TGTTTTCAGA	TAGAGCGCGT	GTCGCAGTAG	CAGTCACTCC	GATATGGCTC	720
TTCATTTTTT	CACCAACAAT	CATAATGATA	GAAAGGTCGT	GTTCGATTTC	TGCATGATCT	780
ACTTTAGCCT	TTTGAACCAA	CTGACGCAGG	ATTTCTTCTT	CCTTGATGGG	AGTTAGTTGG	840
CGAGAACGGA	GAATGATAGA	AAGAWCGTCG	ATACCTGTTG	GCATATGTTC	CCAACCGATG	900
T						901

(2) INFORMATION FOR SEQ ID NO: 282:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1765 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 282:

CCCTGTTACG TGGATAATAG GGTAAGACTG CTCAGGATTT CCTAACAAAT CCACCGCTTG 60
CTGCATTCGA CCCAAACCTG ATCGAAAATT CAAACCAATC CGACTATGGA GCCATTCTTC 120
TACTTCAAAC ATACACATCT CCTTGACAAA AGTCCAATCA ATTATCGCAT TAAAGTATGG 180
TTACTAATAA AAACAAGGCC AGGATTTTCG TCCCGACCTC TTACCTGGTT AGCTAATAAC 240
TAGCTACTAT GAATGTGAAT ATGGGCTAAA AACATCCACT GGACGTTCCA ACTCTTCCCC 300

	•					
ATTTCTGGGA	GTTGGGGTAA	AAATGTTCAC	1312 TGGACGTTCC	AACTCTTCCC	CATTTCTGGG	360
AGTTGGGCTG	ATACAGTCTC	CCAGACTGTA	TCACTCCTCC	ATAAAGCTGT	TGAAGACTTC	420
TTCAATCATG	TTCCATTCGT	CTTCTGAGTC	TTCTGGGATT	GGTTGCAATT	CGCCTTCTGT	480
TCCATCTTCG	TTTTCGATGA	ATGAGTAAGC	TTGGATTTCA	ACTTGTCCGT	CTTCGTCTTC	540
TTCTGCGTTA	ACTGGTACTA	GAAGAACATA	GTTTTTACCA	AATTCTTCTT	TTCCATCAAT	600
TGTCAAAAGG	ATTTCAAACA	AGGTTTCATT	TCCTTGCTCA	TCTACTAGTG	TGATTAGTTC	660
ACGTTCTTCG	TGGTCGTGGT	TATGATCGTG	TGACATAGCC	TCGCCTTTAT	АТТААААТТТ	720
тстатстала	TAATTTTGTA	AAATCAGCTG	AGCTGCTAAC	TTATCAATGA	CTTTCTTGCG	780
CTTATTGCGA	CTGATATCTG	CTTGTTCAAT	CAACATGCGC	TCAGCAGCCA	CTGTTGTCAA	840
GCGTTCATCC	TGATAGTCTA	CTGGTAAACC	ААААААСТСТ	TCTAGCTTTG	CTCCGTAGCT	900
TGACTAGCTT	CTACGCGCGG	TCCACTTGTA	TTGTTCATGT	TTTTAGGCAA	GCCCACTACA	960
AATCGTTCCA	CCTTGTAAGT	ATCAACCAAT	TCCTTAACGC	GGTCAAAACC	AAATTGGCCT	1020
TGTTCTTCAT	TTATCTGGAT	GATTTCAAGC	CCTTGAGCTG	TAAAACCAAG	CGGATCGCTA	1080
ATCGCCACCC	CTACCGTTTT	TGAACCGACG	TCCAATCCCA	TAATTCTCAT	AGGTTATAGA	1140
TCGACTCCTT	GTCCTTTGAG	GTAGTAGCGA	ACCAATTCCT	CAACGATTTC	ATCACGCTCA	1200
TACTTACGGA	TTTGATTTCG	TGCATTATTA	TAACGAGGAA	CGTAGGCAGG	GTCTCCACTC	1260
AATACGTAAC	CTACGATTTG	GTTAATTGGG	TTGTAACCCT	TATCGTTCAA	CGAAGCATAA	1320
ACATCTGTCA	AAGTTTCGCT	AATTTCTTTT	TTATTGGAAT	CGTCCAATTT	AAAACGTACT	1380
GTTTCTTCAG	TAAATCCCAT	TCTAACACCC	TCTTTCCTTA	GAATAGTACC	ATTATAGCAT	1440
AATTCCTTAC	CTTCTACAAT	TCAGGCAGTC	TATTTATTTG	GATTTTCTAT	TGTTCTGTCG	1500
CGCCATTTGC	CAATCTATCT	GAAATATATT	TGCTTGGTTC	ATTTTTCAAA	AGATTTTCCA	1560
AACCAATATT	CTTCAGATGT	TCCAACTGGG	AAGCCTTCTT	GACATCCAGA	ACTTGAAAAT	1620
CAAAACTAGT	CGTTGTTTGA	AGTTCCGTTG	CGCTCAATAG	TTTTGTTTCA	AGTTTGAAAC	1680
CTGCCAATTT	ACGAGCTTCA	ATGATAGACT	TATCCTTCTC	CTCCGCTTCA	AGAAGAGCTT	1740
TTTGAGTTTC	CTCCACTCCA	TGTTG				1765

(2) INFORMATION FOR SEQ ID NO: 283:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1346 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

WO 98/18931

1313

PCT/US97/19588

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 283:

CTTATC	CATT	CACTTTCTTG	TCTGTTATTC	TATAAATCTT	ACTCCTAAGT	ATACCACATT	60
rgcccc	TAGA	TGTGAACGAG	AGAAACGCTC	TAGACATTGC	CAAGAAGGAA	AAAAAAGGGT	120
CAATO	TAAC	AAAATCAAGG	GAGGTCTGGA	ATGAAGAAAC	AAAGCAAGTA	CAAAGAGGTC	18,0
TTTC(TATC	TGAAAAATGG	TATCGAGTCT	GGACGATTTC	CGACGGGTAG	TCGCCTGCCT	240
CTATO	CCTC	AACTGAGCCT	TGACTTTCAC	TGCAGCAAGG	ACACCATTCA	ACGAGCCCTG	300
TGGA	ATTAC	GGCACGAACA	ATACCTCTAT	GCCAAGCCTC	AGAGTGGCTA	CTATGTATTA	360
SAACAA	AGGGC	AACATCAAGA	CCTAGAAATC	GAGGTTACCG	ACGAACATGC	CAGTGCCTAT	420
GACGAT	TTCC	GACTCTGTGT	CAATGAAACC	TTGATTGGCC	GAGAAAACTA	CCTCTTCAAC	480
ractai	GACA	ATCAAGAAGG	ATTAGAAGAC	CTAAGACAGT	CCATTCACAA	ACTCCTCTTT	540
GAGCAA	AGCTC	TCTACTGCAA	GGCTAACCAA	CTAGTACTGA	CTTCTGGAAC	CCAACAAGCC	600
PTGTT	ATCC	TCTCTCAAAT	ATCCTTTCCT	AGACAAGCCA	AGGAAATCTT	GGTGGAACAG	660
CAACC	TACC	ATCGGATGAA	TCGCCTCTTG	ATTGCACAGG	GGCTGGACTA	TCAAACGATT	720
GAACGA	AGGCA	TTGATGGGAT	TGACTTGGAG	GAGCTGGAAG	GCCACTTCAA	AACAGGAAAA	780
ATTAAC	TTTT	TCTACACCAT	TCCCCGATTT	CACTATCCCC	TGGGACATTC	CTATTCTGAG	840
CAAGAC	CAAAC	GATCTATTCT	TAACTTAGCT	GCCAAGTATG	ATGTCTATAT	CGTAGAGGAC	900
SATTAT	CTGG	GTGATTTGGA	CTCCAAGAAG	GGCCAAACCT	TCCACTATCT	TGATACAGAG	960
SAGCGT	GTCA	TTTATATCAA	GTCCTTCTCG	ACCAGCCTTT	TTCCTGCCCT	TCGTATTACA	1020
CACTO	ATTC	TTCCAAATGC	TATCAAAGAA	GCATTTGTGG	CCTACAAAAA	TATCCTAGAC	1080
PACGAC	AGCA	ACCTCATTAT	GCAAAAGGCC	CTGTCACTCT	ATATTGACAG	TCAATTGTTT	1,140
AAAA	LAATC	GTTTGGCTCG	CTTGACCAAT	CATGAATCTT	ACCAAAAACA	AATCGAGGAA	1200
GGATA	ACTA	AAACACCTTG	TCCCCTTCCT	CATTATTCCC	TACACGATGG	yTTATTGCTA	1260
ACCTG	AGAC	AGTATCCTAA	AATCGCCAGT	CTCAAACACA	GTCAACTGGG	CTTGGACTTC	1320
TTGAA	GAGG	CCTATTTAAG	CACCTG	*	•		1346

(2) INFORMATION FOR SEQ ID NO: 284:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 900 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

PCT/US97/19588 WO 98/18931

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 284: CTATATTCAG AATATGCCAA AAATTCGGAA TGGTATAAAT TTGCGGAGGG TTCATTTGAC 60 ATATTTAGAA AACTCCCCCA AAGAATTAAT TTTAAGAAAG ATTTTTCTAG AATTTTGGCC 120 CCCTTTATTA TTAATTTGCT TAAATTAATC AATAATTATC TAGAGAATAA AGAATACGAG 180 TGGATTGACA AGAATGGAAA TATTTTTTCC TCTCTAGTAT TTTATTTAGA AGATTTAATC 240 TATCCTTGGA TTGTTAAACC TTTGGTTTTA GAGATAAATT CATTGCGTGA AAAAGGTTTA 300 CTTGAAGGGG AATCGGAGCA GCAACGGTAC AAATATTTTA TAACATTGTT TGACAAGGAA 360 GAGAATATAT TAAATTTTTA TAACAAATAT CCCGTTTTAC TGAGGCAAAT ATCGGAGTCT 420 TGTCTTCGGT TCTATACTTA TTTTATAGAA ATTTTATCAA ATTTAGAAAA TGATTTTAGT 480 GTGCTAGAAG AAGAATTAGG GCTAAGGGGG AAATTAAATG ATATAAAATT TGGAAAGGGT 540 GATACACACA GCCAAGGAAA AACTGTTTTG ATACTCTTCT TTGATGACGC GAAAATTGTT 600 TACAAGCCTA AAAATTTAAT AATCAATAAC TCACTAAATA CTATTGCTGA GTATATCCGA 660 AAGGTTGATG AAAAAATTAG GATAAGAATA CCTCGAACTA TTGCTTATTC GGATCACAGC 720 TATGAAGAAT TTATTGATTA TCTACCTCTA GAGCAAAAGA AAAATTTACC TGAATATTAT 780 TATAATTTTG GTGTGCTTTT AGCATTTATA TATTTATTTA ATGGGAGTGA TATACATTTT 840 GAAAATTTAA TTTCCTATGG AGATATGCCT GTAATAATAG ACTTTGAAAC AATGTTACGG 900 (2) INFORMATION FOR SEQ ID NO: 285:

- (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 862 base pairs
 - (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 285:

TTATTTAGCA	GAGGCAGTTT	TAAATGTGAA	GGATTTGGTC	AGTCAAACAG	TTTTTTATCA	60
GCAGATTATT	GGTTTAGAAA	TCCTATCTCA	AACGGATACA	GAGGTCGTTC	TGGGACTTGG	120
AGGAAAAGCC	TTGGTACACT	TGATTCAAGC	ACAAGAGGGT	GGAGAAGTAA	GGGAACATTA	180
TGGTCTTTAC	CATCTGGCTA	TTCTTTTGCC	GACACGAAAG	GCTTTGGCGG	ATGTCTTGAA	240
GCACCTGACG	GATTTACAGA	TTCCTCTTGT	TGGCGGTGCA	GATCACGGTT	ACAGTGAGGC	300
CCTTTACTTA	GAGGACTTGG	AGGGAAATGG	CATTGAACTC	TATCGAGATA	AGCCAGTTTC	360
CACATGGGAT	ATTCGAGAAG	ATGGACGTAT	TATCGGGGTG	ACTGAAGTCC	TTGCGGCTCA	420
GGATATCTAT	GAGTTGGGGG	AAAGAGTAGA	GCCTTTTATC	CTAGCAGAGG	GTACGAGAAT	480

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GGGGCATAT	T CATCTTTCTG	TCAAGGATAG	TCGAAAGTCC	AGACAGTTTT	ATCAAACGGT	540
GTTAGGGCT	C GAGGATAAAT	TCAGTGTGCC	TAGTGCTAGT	TGGATCGCAG	CTGGGGACTA	600
CCATCATCA	T TTAGCAGTCA	ACGAATGGGG	AGGAAAAGGT	CTGGATCCGC	GTAAACAAGT	660
CCTACCAGG	T TTAGCCTACT	ATGTCATCGA	AGTCGCACAT	AAAGAAGAAC	TGTTAACGAT	720
TGCCCAACG	A GCACAAGAAG	TTGACGCACC	AATCAAATGG	ATGACATCGA	TCCAATTGGA	780
AATCACAGA	C TCAGATGGCA	TCGTGACCCG	TATTCGTTTA	GCTAGATAGA	TGGTATGTGA	840
TGAAGGTAG	A GCATCAATTG	TA				862

(2) INFORMATION FOR SEQ ID NO: 286:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 650 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 286:

TCGTTTACAA	GATCGCTAAA	ATGCATCTCA	TGATCGCGAC	CACGAATTCC	AAGATAGCAC	. 60
GCGCTACCTC	AATCATAGAT	AGTTCACTTT	TTTCTTGCCC	AGCAAATACT	TCTAATTCCA	120
AAGCGTTTCT	CCTCATTTAT	ACTACTATCG	CCAGAGCGAA	CAGACTCTGA	CCTCATTTTA	180
TCATTTACTC	TTTATTTTAC	GATAATTTTG	CGGAATAGTC	AAAGGTTAAG	GGGGAGAAAG	240
TGGCAGGATT	AGACTAATTC	СААТАТАААА	CTCATTCCTT	TTTCTGTTGC	TCCATTTTCC	300
ACAAATCCAA	GCGACTTGAA	ACACCTCCTA	GAAGCATGAT	TGTAGGTGTA	GATTTTCTTG	360
ACTCTCAATT	CTTTCCATCC	TTTTACTCGA	GCCAATTCAA	TCAAAGCACT	TAGAATCTTT	420
TTTCCAAGTC	CTCGATGTTG	GTAAGCGGAA	TTCCCAATCA	CAATGGGGAG	ATTATCCTGA	480
GATAGTGTAA	TATCCCCAAT	TGGAAACCAT	TCTCCCTTCT	CCTTGACTTC	AATCCAAAAA	540
AGCTCACCAT	GCCGATyCAr	ATAGGAATAC	ATGGCTTCCA	AGGTCGcTtG	ACTGTAAGGA	600
AGCTTCACCC	CATCTACGAG	GLAACCAAGT	TCACATCCGT	GATACCAAGC		650

(2) INFORMATION FOR SEQ ID NO: 287:

- (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 1119 base pairs(B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 287:

GATAGCAATC CGCTTCAGAA ACTTCTCGCT TACCTCTAAC TCCGATCGCT AGTTTGGGAG 60 AAGATACTTC CATTCTCATA CTATCTGTTG GCTTTGCAGG CTGTAAAAAC AACTTTTCTC 120 TTGCTACTTC CTGAAAATCT GAATCTTGCA GTTCTTTGCT TTCAAAATAG TCCTGTACTC 180 GCTCCACATC AAAATTCCCA GCTAAAGACA GAGACATGTT TACAGGTTTG TAAAACTTTG 240 TAAAATTTTC TTGCAAATTA GTTAGATTGA TTTGGGAAAT GGACTCCTCA CTTCCAACTA 300 TATCAGTTGC TAAAGGTGTA CCAGGATACA AATTCGCTAA AGTTGAAAAG AATAAACACG 360 AATCTGGATC ATCTTGGTAC ATTTCTCGTT CTTGCTGAAT AATATCCTGC TCTGTCAGAA 420 TGGAAGCTTC AGTAAAGTGT GCTGATGTTA CCAATTCATC AAGTAAATCT AAATTTTCTA 480 AAAAATAATC CGTTGCTGAA AAAAGATAGT TTGTTTTTGT AAAGCTTGTA AAGGCATTAC 540 TATCTGCACC TAGACTCGTA AAAGCCGACA TCAAATCACT AGAATCTTCT CTCTCAAATA 600 ATTTATGTTC AAGAAAATGA GCAATTCCTC CAGGATATTG TTTTACATCT CCGTCAACTT 660 CTGTGACAAA CGTATCTACC GAACCAAACT GTACAGTGAC ACTCCCGTAA ACCTCTTTAA 720 ATTCCTTTTT AGGCAAAAGA GCAACTGTCA ATCCGTTGGC CAAACGAGTT CGATAAACCA 780 TTTCTTTTAC AGCTGGATAG TATTTTCTT CAAAAACAAC CTTTGTCATT CTATTCCTTC 840 CATAAAGTAA ATCGCTTGTA GTTTCACATT ATTAGCTACT CTACAAATAG CATCTTTGTC 900 AATTTGTTCA AGCTTTGCAA TCCAACTTTT AAAGTCTGCT GAAGATTTTC CAAATAAGGC 960 ATTTGATAA GCACGTTCAA TCAATGAAGA ATGATTATCT TGAGAAAGTA ACAACGACCA 1020 ACGAATCATT TCCTTGGTCT GATTTAACTC AAACTCTGTA AAAAAACCTT TTTTTAAATC 1080 AAGCCGTTGA TTATTCATCA ATTTACGAGC CTGGTTACG 1119

(2) INFORMATION FOR SEQ ID NO: 288:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 540 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 288:

ACGCCCTCGC GGGGACATGA CGAATTCCCC GTTCATCACG AAGGCCGCCG AGGAGTGGGG 60
GGTGCCGTCC AAGTCAAAAG CGGCCCCACA TCGATTCAGT TCCCCGACGA ACAGCCCTTT 120
CCCCCCAGCGT TCCTGGCTTT GCAACCGTTT CACAACAGCC TCGTAAAGTA GGCCGGACAA 180
GGCAGACGGA CTCCAAAGGA GTTCTTCCAT CTGCAAGTGC GCCTGCGTTA TGTGATCCCG 240

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GTCTTTTGCA	TGTGTGTGGC	ATGAATGCTG	TTCCCAATCC	CACTCCAGAA	CATTCTCCTC	300
AAAAGTGCGC	AACGTCGCCC	TGAATGAATC	CTGCCTTGTA	GTCGTGACCA	TTCCTATGAA	360
GGGTCGCAGA	GGATTTTCCC	CGAGTGCAAG	CGCATCCTCC	GGCTCAAATC	GGGTGCATTT	420
CACAGTCCCG	CTCAACGCTA	GCCCGATCCC	TTTTTGGCAT	GGTGACTCAA	GCGTCCTTTC	480
AAACAAAAGC	TCCTCATCCG	CTCCAACCGG	CCCGACGTAG	ACGCGTAGAC	CGAAGTCGTC	540
•						

(2) INFORMATION FOR SEQ ID NO: 289:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1949 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 289:

AAAGAATTCG	ACCAATTCAA	GGTTGAGGCA	TCGCAAACTA	TGGACTGTTC	CCCCGTCAGT	60
TCTGGACAGA	AAACGGGATA	AGGTTGGCTG	TGAAGCAAGC	TGCCCTCCTA	CCAACAATTT	120
TGGAAAGTAG	GCATCAGCTG	ACAATTCTTT	ACAAGCATAG	TCCGTTCCAT	AACCTGTTAA	180
CAGTTGAAAG	AGGAACTGGA	CAAGGATATC	TGAATCCGAA	TAACGACAGT	AGCGGCGTTG	240
GTCATTCGTT	ACTAAATACT	TAGAAATCCG	CTCTTTTAGT	TTCAACTGGG	AAAAAAGTTC	300
CTGAAAAAAG	ATAAGACCAC	CATACTGGGT	TAAATGACCT	CCATCGAAAG	ATAGTTGGTA	360
AAAAGACTTG	TTTTGGAAGT	GATGATTTGG	TAAACTGTTC	ATGTGAGTTT	CCTTTCTTTT	420
TGTGTTTTTT	TCTACACTTA	TACCATAAAG	GGGAAACTCT	TTTTTGTCTA	GTAAAAAACA	480
CCCATTGGGT	GAAAAAAGAA	ACCATCCAGG	ATCTAAGCTA	AGGCAAGGAT	TCTGGATGGT	540
TTTTAGATTT	GGGGTGAATA	ATTGGGGTTT	TACAATATCA	ACTCCCATGA	TAGTCATGAG	600
ATGACTCTTC	ACGAATTGAC	GTGATGACTG	TCCTTCCTTT	TGCATAATTA	CCTCCGAAAC	660
ACAAAAAAAG	GGGTAGACAA	TCTAGTGTCT	ACCCCCGAAA	GTTTATTAAA	ACAAAAATCC	720
TGCCAAAGAA	TTTTTGGCAG	GAAACCAAAT	CAATTTATCA	GTTTCTATCA	ATCGCTTATC	780
GCTCTCAAAG	ACTGGTAAAT	AGGGATTCCG	CAATCAAATT	GCGATACTCT	ATTATTTAAG	840
AGTAACTGAA	GCTCCAGCTT	CTTCCAATTT	AGCTTTGATT	TCTTCAGCTT	CTGCAGTTGC	900
AACGCCTTCT	TTAACAAGTG	CTGGTGCACC	GTCAACAAGT	TCTTTAGCTT	CTTTAAGACC	960
AAGACCAGTG	ATTTCACGTA	CAACTTTGAT	AACGCCAACT	TTTTTGTCGC	CTGCAGATGT	1020
CAATTCAACG	TCGAATGAAT	CTTTAGCAGC	ACCAGCATCA	GCTGCATCAG	CTGCAGCAAC	1080

AGCTACAGGA	GCAGCTGCAG	TTACACCAAA	1318 TTCTTCTTCG	ATAGCTTTTA	CAAGGTCGTT	1140
CAATTCAAGG	ATTGAAGCTT	CTTTAATTTC	AGCAATAATG	TTTTCAATGT	TCAATGCCAT	1200
TGTTATTTCC	TCCAAATAAG	TTTTAAATTT	TATAATAGTT	TTTTTCGTAG	CTAGksTACG	1260
CTGTGTAGCT	TAAGATTAAG	CCGCGTCTTC	TTTGCTTTCT	GCAACCGCTT	TGACTGCAAG	1320
AGCAACGTTG	CGCACTGGCG	CTTGAAGTAC	AGAAAGGAGC	ATAGAAAGAA	GTCCTTCGCG	1380
GTTTGGAAGA	GTTGCAAGTG	CAAGAATCTC	TTCTTTAGAT	GCGACAGCGC	CTTCGATTGC	1440
ACCACCTTTA	ATTTCAAGTG	CTTCAGCGTT	TTTAGAAAAG	TCGTTCAAGA	TTTTCGCTGG	1500
TGCGATAACA	TCTTCATTAG	AAAATGCTAC	TGCAGATGGT	CCAACAAATA	CAGATGCAAG	1560
ATCTTCAAGA	CCAGCTTTTT	CAGCTGCACG	ACGCAAGATT	GAGTTTTTAA	TAACTTTATA	1620
CTCAACTTCG	CTTCCACGAA	GCTCACGACG	AAGAACTGTA	TCTTGCTCAA	CTGTCAAACC	1680
ACGAGCGTCT	ACAACGACGA	TAGATGCAGC	AGCTTTCATT	TTTTCAGCTA	tACGTCAACT	1740
AGTTCCGCTT	TTTTAGCAAT	AATTGCTTCA	CTCATTAGTG	TGTTCACCTC	CGTAATTATT	1800
TTGCTTGGGG	AATTTTTCAA	AAAGAAAAAC	GCGCCCAATC	CTAGACACGA	AAGTACAATA	1860
CGCTTCTTTT	TACATGATAC	GTTTTGTCCT	CGGTAGGATA	TTTATGAGTC	GAGCTCCCCT	1920
actgtcttag	GCAGTTTTTT	TAGATACGG				1949
(2) INFORM	ATION FOR SE	EQ ID NO: 29	90:			

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1023 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 290:

GGACTGTTTG	ATCTTATACA	GTAGCTGCTT	GATCCAAGCT	TTCACCGATA	GCGGCTAGGC	60
GCTCGATAAC	TTCAGCTTGT	GTCAATTCAT	TTTTTGAAAC	ATAGCGGTTA	CGTGGGTG.AA	120
CACGGCACTC	GTGTGAGCAT	CCACGAAGGT	ACTTGTCTTC	ATTTTCTTCT	GATGTCAAGA	180
TACGACGGTT	ACAGAATGGA	TTTCCACAGT	TGACATAACG	TTCACATGGT	GTTCCATCAA	240
ACCAGTCTTT	CCCTACGATA	GTTGGGTTGA	CATGGTTGAC	ATCAACGGCA	ATACGCTCGT	300
CAAAGACGTA	CATTTTCCCA	TCCCAAAGCT	CACCTTGAAC	TTCTGGGTCT	TTACCGTAAG	360
TTGCGATTCC	TCCGTGCAAT	TGGCCGACAT	CTTTGTAGCC	TTCACGGACC	ATCCAGCCTG	420
AGAATTTCTC	ACAGCGAACG	CCACCTGTAC	AGTAAACCAC	GACACGCTTG	TCCATGAATT	480
TTTCCTTGTT	ATCACGGACC	CATTGTGGTA	ACTCACGGAA	GTTGCGAATA	TCTGGGCGAA	540

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TAGCTCCACG	GAAATGTCCT	AGGTCGTACT	CATAATCGTT	ACGTGTGTCA	AGGACAACGG	600
TATCTTTATC	AAGAAGCGCT	TCTTTGAACT	CTTTTGGAGA	CAAGTAAGCA	CCTGTTGTTT	660
CAAGTGGGTT	GATGTCATTG	TCAAAGTCGT	TGTCTTCCAA	ACCAAGGTGG	ACAATTTCTT	720
TCTTGTAGCG	AACAAACATC	TTCTTGAAGG	CTTGTTCATT	TTCTTCGTCA	ATCTTGAACC	780
AGAGTTCTTC	CATTCCTGGA	AGGCTGTGAA	CGTAgTCCAT	GTATTTTGA	GTTGTTTCAT	840
AGTCACCTGA	AACTGTTCCG	TTAATTCCCT	CGTCAGCGAC	TAGGATACGG	CCTTTAAGGn	900
CGATTGATTT	ACAGAAAGCC	AAGTGGTCTG	CAGCAAATTG	CTCTGCATTT	TCAATTGGAG	960
TATAAAGGTA	GTAAAGTAAG	ACACGAATAT	CTTTTGkCaw	AAGATTTGTA	TCTCTTTATC	1020
TAT				*		1023

(2) INFORMATION FOR SEQ ID NO: 291:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 3831 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 291:

ACTATGAAC	A AGACCCAGAA	AAAGTAGCCT	TATTTCTTAA	GAATTTTAAT	AGTTTAAAGC	60
ACCTAGCAC	C TGTTTAGATT	GACGAAACAG	GATTCGATAC	TTATTTTTAT	CGAGAATATG	120
GTCGCTCAT	T AAAAGGTCAA	TTAATAAGAG	GCAAAGTATC	TGGAAGAAGA	TATCAGAGGA	180
TTTCTTTGG	T TGCAGGTCTA	ACAAATGGTG	AATTAATCGC	TCCAATGACT	TACGAAGAGA	240
CGATGACGA	G CGACTTTTTT	GAAGCTTGGT	TTCAGAATTT	TCTCTTACCA	ACATTAAACA	300
CACCATCGG	т таттаттатс	GATAATGTAA	GATTCCATAG	AATGGGGAAG	CTAGAACTTT	360
TATGCGAAG	A GTTTGGGCAT	AAACTTTTAC	CTCTTCCTCC	CTACTCGCCT	GAGTACAATC	420
CTATTGAGA	A AACATGGGCT	CATATCAAAA	AGCACCTCAA	AAAGGTATTA	CCAAGTTGCA	480
ATACCTTTT	A CGAGGCTTTT	TTATCCTGCT	CTTGTTTCAA	TTGACTATAT	TAGAGGCGAG	540
ACATTTTTC	G GTTCTTTGTC	AACTGTAGTG	GGTTGAAGAA	AGCGAAGATC	TAGAAAGGAC	600
AAATTTCGT	C CTTTCTTTTT	TGAAGTTTTC	AAAGTTCCTA	AAACCAAAGG	CATTGTGCTT	660
GATAAGTTT	G ATGAGATTAT	TGGTGGCTTC	CAGTTTGGCG	TTGGAATAAG	GTAATTGAAG	720
GGCGTTGAC	G ATTTTCTCTT	TATCTTTGAG	GAAGGTTTTA	AACAAAGTCT	GAAACAGAGG	780
TGGAAAAGC.	A AGAGCTGATA	GAGATTATAG	TGGTGTTTAA	AGTCTTCGGA	ATAGCTCAAA	840

			1320			
AGTTTATCTA	GAATTTCTTT	ATTAGTCAAG	TGCATACGAA	AAGTAGGGCG	ATAAAATCGT	900
TTATCACTCA	GTTTCTGACT	ATCTTGTTGA	ATGAGCTTCC	AGTAGCGCTT	GATAGCCTTG	96
TATTCATGGG	ATTTCGGATG	ATGGCTTGTG	TTCTGCTCTC	AAGAACAGTT	ATGATATTGA	1020
GTTTATCAAA	GTCCTGAGCA	ATAAAGCTCA	TCTCCATCTC	CCGATTGAAA	CAGTCACTCC	1086
CCGGACTGTT	TCAACSTCCT	AGGACATAAT	CTCAGGAAGA	CGCGAAAAAT	CATGCTCAAA	1140
GTGAAAATCA	TTGTTCTTGC	GAATGACAGT	TGAAGTTGAA	ATAGACAACT	GATGATCAAT	120
GTCGGTCATA	GAAGTCTTTT	TAATTAGCTT	CTGAGCAATC	TTTTGGTTGA	TGATACAAGG	1260
AATTTGATGA	TTCTTCTTGA	CGATAGAAGT	CTCAGCGAGC	TCCATTTTTG	AGCAATGATA	1320
GCACTTAAAA	CGGCCTTTTC	TAAGAAGAAT	TCTAGTTTGA	ATTTTTTTAT	ACTAGAAAAT	1380
CAGAACCATA	ATACCTATAT	AAAAATATTA	TAGTTCTAAT	AGGATTTACC	CAAAAGTTTT	1440
AAGGCGGTCT	TTTTAGAACT	TTAATTGTTT	GAAATTTAGG	TAGCAAATTT	GTTTCTATTT	1500
TGTCAACTTT	TCCTATTTT	ATCTTGTTGA	GGCTGGTATT	TTAACAATTC	AGGAATTGAT	1560
AGTGAATGTG	TAAAATTTTT	TGTTAGAATA	AGTTTATAAA	AAAGAAAAGG	AGTATTTGAT	1620
TATGTTACAA	AAAATTTATG	AGCAGATGGC	TAATTTCTAT	GATAGTATTG	AAGAAGAGTA	1680
TGGTCCTACA	TTTGGTGATA	ATTTTGACTG	GGAACATGTT	CATTTTAAAT	TTTTAATTTA	1740
TTATTTAGTG	AGATATGGCA	TTGGTTGTCG	TAAGGATTTT	ATTGTTTACC	ATTATCGTGT	1800
TGCTTATCGT	TTGTATCTTG	AAAAATTGGT	AATGAATCGG	GGTTTTATTT	CTTGTTGAGG	1860
TAATTTTAGT	AAATTTCCGA	ACTAATTTAC	TCTTTTATGG	AAAGATGATA	GTAAATAGCT	1920
AGTAATTTTT	CTAAATCATT	TTTTAATAGT	TGGAAATAGC	AAATCTTTCT	ATTGTTTCTT	1980
CTTGATAAAA	AGGCGATTTT	TAATTATAT	AAATTGTAAG	ATATAATTGC	AGGTGAGAGT	2040
CCTGCCATGT	atgtgagaaa	GGAAGAGCCT	GATGGCTCAG	ACAAGATTAT	GACTTCAGTT	2100
GTTGTTGTAG	GTACCCAATG	GGGTGATGAA	GGTAAAGGGA	AGATTACAGA	CTTCCTTTCA	2160
GCGAATGCAG	AAGTGATTGC	ACGTTACCAA	GGTGGTGATA	ATGCTGGTCA	CACGATTGTG	2220
ATTGACGGTA	AGAAATTTAA	GTTGCACTTG	ATTCCATCTG	GGATTTTCTT	CCCTGAAAAA	2280
ATATCTGTCA	TTGGGAATGG	TATGGTTGTA	AATCCTAAAT	CTCTTGTAAA	AGAGTTGAGC	2340
TATCTTCATG	AGGAAGGTGT	AACAACTGAT	AACTTGCGTA	TTTCTGATCG	TGCGCATGTT	2400
ATTTTGCCTT	ATCATATCGA	GTTGGATCGC	TTGCAAGAAG	AAGCTAAGGG	CGACAATAAG	2460
ATTGGTACGA	CAATTAAGGG	AATTGGTCCA	GCTTATATGG	ACAAGGCTGC	TCGTGTTGGA	2520
ATTCGTATTG	CAGATCTTTT	AGATAAAGAT	ATTTTCCGTG	AGCGTTTAGA	ACGTAACCTT	2580
GCTGAAAAGA	ATCGTCTTTT	TGAAAAATTG	TATGACAGTA	AAGCGATTGT	TTTCGATGAT	2640

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ATTTTTGAAG	AATATTACGA	ATATGGTCAA	CAAATCAAGA	AATACGTGAT	AGATACATCT	2700
GTTATCTTGA	ATGATGCGCT	TGATAATGGC	AAACGTGTGC	TTTTTGAAGG	TGCACAAGGT	2760
GTTATGCTAG	ATATCGACCA	AGGTACTTAT	CCATTTGTTA	CGTCATCAAA	CCCTGTAGCT	2820
GGTGGTGTGA	CAATTGGTTC	TGGTGTCGGT	CCAAGCAAGA	TTGACAAGGT	TGTAGGTGTA	2880
TGTAAAGCTT	ATACGAGTCG	TGTAGGAGAT	GGTCCTTTCC	CAACTGAGTT	GTTTGATGAA	2940
GTGGGAGAAC	GTATCCGTGA	AGTGGGTCAT	GAATATGGTA	CAACAACTGG	TCGTCCACGT	3000
CGTGTAGGTT	GGTTTGACTC	AGTTGTGATG	CGTCATAGCC	GTCGTGTTTC	TGGTATTACT	3060
AACCTTTCTT	TGAACTCTAT	TGATGTTTTG	AGCGGTTTGG	ATACTGTGAA	AATCTGTGTG	3120
GCCTATGATC	TTGACGGTCA	ACGTATTGAC	TACTATCCAG	CTAGTCTTGA	ACAATTGAAA	3180
CGTTGCAAGC	CTATCTATGA	AGAGTTGCCA	GGTTGGTCAG	AAGATATTAC	CGGAGTTCGC	3240
AATTTGGAAG	ATCTTCCTGA	GAATGCGCGT	AACTATGTTC	GTCGTGTGAG	TGAATTGGTT	3300
GGCGTTCGTA	TTTCTACTTT	CTCAGTAGGT	CCTGGTCGTG	AACAAACAAA	TATTTTAGAA	3360
AGTGTTTGGT	CCTAAGAGAT	TTTTAAGATT	TGTTTAAGAT	AGGTCGGGTA	TACTATAGAC	3420
GGTTACAAGA	AGACCTCCTA	ACTTGTTGTA	ACAAATATCC	TAAACTTTTC	TTTTTCATAA	3480
TAATCTCCCT	ATAGAGTCAC	CGCATTCGGT	GGCTTTTTTT	GTGTTGGGAT	TCATGATATA	3540
АТААТАААТ	CGATAAGTAG	GAAAAGAGAA	AAGAGATGTA	TTATACGCTT	GAAGAAAAG	3600
AAGTCTTTAT	GAGGGAGGCT	TTGAGAGAGG	CTGAGATTGC	TCTTGAACAC	GATGAAATTC	3660
CAATTGGTTG	TGTGATTGTC	AAAGATGGGG	AAATCATTGG	TCGTGGGCAT	AATGCGCGTG	3720
AGGAATTACA	GCGAGCGGTT	ATGCATGCGG	AAATTATGGC	TATAGAGGAT	GCGAACTTGA	3780
GTGAGGAGAG	TGCGCTTGCT	GGATTGCACA	CTTTTTGTGA	CCATTGAACC	G	3831

(2) INFORMATION FOR SEQ ID NO: 292:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1441 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 292:

CCGCTGTTCC AACCGCAACA TACCATAGTC CGTACGGGAT TCGAACCCGT GTTACCGCCG 60 TGAAAAGGCG GATGACTTAA CCCCTTGACC AACGGACCTG AGTTGTTATT TTCAACTCTT 120 ACTATTATAC AGTCTTTCA AACTTTGTCA ACTACTTTTT CTAATTTTTG TTTATTTTTT 180

		•				
СААСТТАТАС	TAAAAAAAACC	CAGAATTATA	1322 СТСАСТСТТС	ጥልጥ ርርርጥር አጥ	ጥልልል ርምምልር እ	240
			•			240
AGCACGTTCT	TTTCCCCACC	AATAAGGGAT	TAGTTCTGCG	ACTTTAACTG	TTTTTCTTAT	300
ATTATAGTCC	ATCATGAATT	CTGCATCTTT	ATTTTCAGCA	TTAAGCTCTA	AAAGGAATTC	360
TCTACAAGCA	CCGCAAGGCA	TGGCTGAAÇT	TCCACCATAA	GGTGGTTTGT	CTCGAAAGGC	420
TAATACTTTC	TTAACCTTAG	TTTGTCCTGA	AAATTGGTAC	ATATTGAAGA	GGGCCGCCCG	480
TTCTGCGCAG	AGATGGAAAA	CACCACAGGT	TCCCTCCATA	CAGAATCCTG	TAAATATTTG	540
TCCATCTCCT	GCTTCTACTG	CAGCTACAAC	ATGATTGGCA	TAAACAAAGT	CTGATACTTC	600
ATGTGGATTG	TATAGTTTCT	GTGCTTCTTC	GTACATCTTT	TCCCAGATGT	CCATTATTGT	660
ATCCTCTTTA	TTTAGAGATT	TCTTTTAGCA	TGTTTTCGAT	ATGCTGAATT	GATTTTTCAC	720
GTCCAAGCAA	GAAAATTGTA	TCTGGTAATT	CTGGCCCATG	CATTTCGCCT	GAAACTGCGA	780
TACGAATAGG	CATGAAAAGA	TTTTTCCCTT	TAATACCTGT	TTCTTTTTGG	ACTGCTTTAA	840
TTTGTGGGAA	GATATTTTCT	GTCACAAATT	CATCATCTGT	CATCGCTTCA	AGTTTTGCTT	900
TGAATGCTTC	AAGAACTGTT	GGAACTGTTT	CACCCGTCAT	GACTTCGCGC	TCTGCTTCTG	960
TCAATTCTGG	GAAATCTGAG	aagaaaagat	CTGTCAATGG	GATAATCTCA	TCTACTGATT	1020
TCATTTGTGG	TTTATAGAGC	TCAACTAATT	TTTCAGCCTT	GTCAGTCAAA	CGGCCTGCTT	1080
CCTCTAAGAA	TGGTTTTGCC	ATTTCAAAGA	TGGTTTCAAG	GTCTGCATTC	TTGATATAAT	1140
CATTGCTCAT	CCAGTCTAGT	TTTTTCTGAT	CAAAGGCTGC	TGGTGACTTG	CTGAGGCGGT	1200
TTTCATCAAA	AAGTTTAATG	AATTCTTCAC	GAGAGAAAAT	CTCATCCCCA	CCACCTGGGT	1260
TCCAACCAAG	AAGAGCAATA	aagttaaaga	CTGCTTCTGG	AAGGTAACCT	TTCTTTCGGT	1320
AATCTTCGAT	AAATTGAAGT	GTATTAGTAT	CACGTTTAGA	ТААСТТСТТА	CCAGTTTCAG	1380
AGTTGATAAT	CAAGTGTCAT	GTGACCGAAC	TCTGGAGCTT	ССТСААССТА	AGAGCGGGTA	1440
r .						1441
(2) INFORMA	TION FOR SE	Q ID NO: 29	3:			

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 4398 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 293:

CGGCTTATGT AGTGGCAATC TTTCTACGTA AGCGAAACGA GGGGAGATTA GAGGCGCTAG AAGAAAAAA AGAAGAACTA TACAATCTTC CAGTAAATGA TGAAGTAGAA GCTGTAAAAA

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180	AAATGGGTCG	ATGGAATCAA	CTTTCCGTGA	AGTCAAGTGG	GATTGGACAA	ATATGCACTT
240	GAAGGCTATA	CTTTGAAGCA	AAAATAATCT	GCCGATATTG	CAACTCTTTT	ATTTATCTCT
300	AGTCAAATTA	CCAAATTGAG	ATCAAATTGA	AAGGCCAGTC	TCGTTTTCTC	ACCATTCATT
360	GAGAAGCAAG	GGCAGACTTA	GCAATGCTTT	GCGGCAATTC	AGAAGATATT	CTTTGATTGA
420	CTTCAGCATA	ATTTGAGGAA	CTTTGGATTT	GTTCTTCATG	TAGTGGTCGT	ААТСТААААА
\ 480	AAACAATTAG	TGAAATTGAA	AAGCCTTGGA	CAGTATGGTC	AAATTCAGAA	GAGTTGCTGA
540	GACCCTGTGG	TTCATCGGGT	TAACCTTGAA	TCACAATTTG	ATCTGAATTT	AAAATATCCA
600	CATATTGTGG	GGCCTTAAGT	ATCACATTTT	AATACAGAAA	GATTTTGGAT	AAGCCGCAGT
660	TTACAGGATT	GCCAGATCAA	CTACAGAATT	ACGACGCTTT	AGCCTTGGTT	ATCGTGTTCC
720	ACGGATATTG	TTTTGTTGAA	СТААТТАТСА	CTAATTGATG	TTATCGTAAA	TGGAAGCCGG
780	ATTCGTCAGT	CCAAGAGAAT	TCAAGAAAAA	TATGAAGCAT	CCACTTGCTT	AAGCGCGTTT
840	AATGCCTTGT	AGAGGAAATC	GACAGGCACA	TATGAGAATG	TAATGCCGAA	TGGAATTGGA
900	CTTGCAACTC	GGAAAATCTA	AGAAAGTAGT	ATTGCTGCTC	TACTCGAGAA	ATGATATTT
960	GATATTGCAC	ATTGGGAGAA	ATAATACTTT	ATGAAAGAGA	TCTTCAACAT	TTCCAACTTA
1020	CGTATTCAGA	CCATGTTCGT	CAGCTGCAAG	CTTCCTGAGA	GACCTATTTA	GTTTGAACAA
1080	GAAGAACCAA	ТТСАААТСАА	TTGAGGTAAC	GCAGCTATTG	GAGTTTTGAG	CAGAATTAGA
, 1140	CTAAAAGATA	ACAAACTCAA	TTGAGGATTT	GAAGAAAATC	TTCAGTTCTT	CCCAAGCTTA
1200	GATGATATTA	AATTGAGAAA	GCCTGACACA	GTTAGTGAGC	GCAAATTTCA	TTGAAGATGA
1260	CGATACATGG	TACTATCAAG	ATCGTCTCCA	GTTTATGTCA	AAAGGCCAAT	ATGCACGTCA
1320	ACGGCAAGCA	GTTATTCTTT	CTTTCTTGAA	ATTCCACAAA	TCTGCCAGGT	AAAAACGCAA
1380	GAATCTGTTA	GATTAACATT	AACAAAAAAT	GTTGAGTTAG	GGATTTAATG	ATAATACCGA
1440	ACTTATAATA	AGAAACGGAA	TGGAAGCTTT	ACGAATGATA	TGAAATTGCA	CCCGAGTTCT
1500	TATCGCTCAT	TTCTAACCGC	TCTTGCAATA	ACAGAGCAAC	TGCAACTTTG	TTGTACAATA
1560	AAAGAATTTG	TATTTTGAA	Aagctttaga	GCATTTAACG	CATTCAAGAA	TTGĀTĠAACG
1620	CCTGGTGTAA	AGTGGCAGAG	AAGCATTGGA	AAGATTTCTC	TTCATTTGAC	ATTATCACGC
1680	TAATAAAAGA	GATTCGTTTT	CACGTGAAAC	TATGAGAAAA	TGTTACCTCA	CCAATCGCTT
1740	GGGGAGATTT	CTATAGTTGT	AAATCTTTTT	GAGCAGAATC	ATTGTGTGAG	AAAAGATTTT
1800	CCTCAAAACA	TTATCCACTA	CCCAGCCGAT	TGAGTTTTTG	CTCCTGAGAT	ACTTCATTTT
1860	CCGTACTCAA	CGTCGCCTTA	ATCACGTCAG	ATCTTTTCAA	CTCTTCGAAA	GTGTTTTATA

			1324			
GTACAGCCTG	AGGCTAGCTT	CTTAGTTTGC	TTTTTGATTT	TCATTTAGTA	TTAAAGTGAT	1920
TTCGCCAGTC	TTATCTGCAG	CTTCAAATCT	GTACTTTGAG	TAACTTGGTA	ACCGTCCAAT	1980
AACGAAGTCT	ATTGAAAAAT	CTCCAGACTA	GAGAACTCAC	GGATAGTTCC	TAATCTGGAG	2040
ATTTCTTATT	TGCACTTTTC	TTGTACAACT	TTAGTCCACG	GTAAATAGAC	CTCTAAAACC	2100
TCTTTGTTTA	CGAGAGTTTC	CTCGTTTGGA	AGACATTCTA	GAAGATAGGA	TAGATATTTC	2160
TCGCTATTTA	TACTAGACTA	АААТСААААА	GCATTATATA	ATAGTGATAT	GAAATCAACT	2220
AAAGAAGAAA	TCCAAACCAT	CAAAACACTT	TTAAAAGACT	CTCGTACAGC	TAAATATCAT	2280
AAACGCCTTC	AAATCGTTCT	ATAGTAAAAT	GAAATAAGAA	CAGTACAAAT	CGATCAGGAC	2340
AGTCAAATTG	ATTTCTAACA	ATGTTTTAGA	AGTAGAGGTG	TACTATTCTA	GTTTCAATCT	2400
ATTATATTTC	GTCTGATGGG	CAAATCTTAT	AAAGAGATTA	TAGAACTTTT	ATAGTAGATT	2460
GAAATAAGAT	GTGAACAACT	CTATCAGGAA	AGTCAAATTA	ATTTATAGAA	ATATTTTAGC	2520
AGCCAAGGTG	TACTGTTATA	GATTCAATAC	ACTATAGACT	GTAATCAAAC	AACGATTTGG	2580
CGAAATGTAA	AAAAATATGA	GGAGTTCGGA	CTCGACTCTC	TCCTTCAAGA	AACACGTGGT	2640
GGTCGTAACC	ATGCATATAT	GACAGTTGAG	GAAAAGAAAG	TCTTTCTTGC	CCGCCATTTG	2700
AAGGCTGCAG	AGGCAGGAGA	ATTTGTTACA	ATTGATGCCT	TATTTCAGGC	TTATAAAAAG	2760
GAGTTAGGTC	GTTCCTACAC	ACGTGATGCC	TTCTATCAAC	TGTTGAAGTG	CCATGGTTGG	2820
CGAAATATTA	TGCCACGTCC	AGAACATCCT	AAGAAAGCAG	ACGCTCAAAC	CATTGTCGCG	2880
тстааааата	AAATCTCAAT	TCAAGAAGAA	AAGAAAGCGC	TTTAAAACCA	GTAGACGTTT	2940
TCGTAAGGTT	CGCTTGATGT	ACCAAGATGA	GGCTGGTTTC	GGTAGAATCA	GTAAACTGGG	3000
ATCTTGTTGG	GCTCCAATAG	GAGTAGGTCC	ACATATCCAT	AGTCACTATA	TACGAGAATT	3060
TCGCTATTGT	TATGGAGCTG	TTGATGCCCA	TACAGGCGAA	TCATTTTTCT	TAATAGCTGG	3120
TAGATGTAAT	ACTGAGTGGA	TGAACGCCTT	TTTAGAAGAG	CTTTCACAAG	CTTATCCAGA	3180
TGATTATCTT	TTACTCGTTA	TGGACAATGC	TATATGGCAT	AAATCAAGTA	CCTTAAAGAT	3240
TCCGACTAAT	ATTGGTTTTA	CCTTTATTCC	TCCATACACA	CCAGAGATGA	ACCCCATTGA	3300
ACAAGTGTGG	AAAGAGATTC	GTAAACGTGG	ATTTAAGAAT	AAAGCCTTTC	AAACTTTGGA	3360
AGATGTCATG	AATCAACTCC	AAGATGTTAT	ACAAGGATTG	GAGAAGGAGG	TGATAAAGTC	3420
CATCGTTAAT	CGGAGATGGA	CTAGAATGCT	TTTTGAAAAC	AGATGAGTAT	AAAAAGAAAG	3480
TCCTCATTTC	AATAGAAATC	ACGACTTTCT	GATGGATTTA	TAGTAAAATG	AAATAAGAAC	3540
AGGACAAATC	GATCAGGACA	GTCAAATCGA	TTTCTAACAA	TGTTTTAGAA	GCAGAGGTGT	3600
ACTATTCTAG	TTTCAATCTA	CTATATTTTT	GGAGTGATAG	AAAAGCCCTT	CATAAGCTAG	3660

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TCTACTTGTT	CAGGTGCGAG	AGCTTTGACA	TCTTTTTCTG	TACTTAGCCA	AGTCAGTTTT	3720
CCGTTCTCAA	AGCGTTTATA	TAGTAGCCAA	AATCCTTGAC	CATCCCAGTA	AAGGGCTTTA	3780
AAGCGGTCTT	TACGTCCACC	ACAAAAGAGA	AAGACTTGAC	CGGAGAAAGA	ATCCAATTCA	3840
AAGTGGGTTT	TAACTACATA	GGCTAATGAG	TCTATTCCCT	GCCTCATATC	TGTCTTGCCA	3900
CAAACAAGGT	GAACTTGACC	TAAATCACTT	AGTTGAATTA	TCATAGTACA	ATACCTTTCC	3960
TCCGATAATT	ATTTTTTATC	TAGTATACTG	GAAGTTGGGG	AATTAGGATA	GATACCTTGT	4020
TATGACGCGC	TTACGTAACT	TGTAACTAGC	TGCCTAGTTT	GATCTTTGCT	TCTTCATTGA	4080
TTAGCAGTAG	ATTTCAAAAT	GATAAAAACG	CATAGTATCA	GGTATTGAAA	TGTACTGCCC	4140
CAAAAGTTAG	ACAGAAAAA	TCTAACTTTT	GGGGTGTTTT	TGTTATGAAA	TTAAGTTATG	4200
ATGATAAAGT	TCAGATCTAT	GAACTTAGAA	AACAAGGATA	TAGCTTAGAG	AAGCTTTCAA	4260
ATAAATTTGG	GATAAATAAT	TCTAATCTTA	GGTATATGAT	TAAATTGATT	GATCGTTACG	4320
GAATAGAGTT	CGTCAAAAAA	GGAAAAAATC	GTTACTATTT	TCCTGATTTA	AAACAAGAAA	4380
TGATTAATAA	AGTCTTAC				•	4398

(2) INFORMATION FOR SEQ ID NO: 294:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 718 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 294:

AGATTTTTAG	ACTTTGTCTT	TAATCGTTTC	TTTTTAGGGA	TGATTGCGAC	ACCTTCTTTT	60
GGCTATTAAC	TTTAGCAGGA	GGGATTATCC	TTGGTCTAGC	GCCGGCTAGT	GCCACCTTGA	120
TGAGCTTATA	TGCAGAACAT	GGTTATAGCT	TTCGGGAATA	CAGTTTGAAG	GAGGCTTGGT	180
CTCTTTACAA	GCAAAATTTT	GTCTCAAGCA	ACCTGATTTT	CTATAGCTTT	TTAGGTGTGG	240
GTCTAGTTTT	GACCTATGGT	TTĞTATCTCT	TGGTGCAATT	GCCTCATCAG	ACCATTGTTC	300
ATTTGATTGC	GACCCTTTTG	AATGTCCTAG	TAGTTGCCCT	GATCTTTTTG	GCTTATACAG	360
TATCTTTAAA	ATTACAAGTT	TATTTTGCCT	TGTCCTATCG	AAATAGTCTC	AAATTATCCT	420
TGATTGGCAT	CTTTATGAGT	CTAGCAGCTG	TGGCTAAGGT	TCTCCTTGGG	ACTGTGCTAC	480
TTGTAGCAAT	TGGTTATTAT	ATGCCTGCCC	TGCTATTTTT	TGTAGGAATT	GGGATGTGGC	540
ል መመመርመመ ዋልጥ	CAGTGATATG	TTGGAACCTG	TCTATGAAAT	CATCCATGAA	AAATTGGCGT	600

1326 CAAAATAGAA TGAAGCAGTT TTGGCTACAT ACGCTTCTAA GAACCTATAG TTCAGTGATG	660
ATCATTATCA TTGCGAGTTT TGCAATCTTA CTCTCTTACG CTGTCTGGGA TTCACGTG	718
(2) INPORMATION FOR SEQ ID NO: 295:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 718 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 295:	
TCGGTACCAA AATTCTGGAT TTATACTAGC AAAGATCCAA GAGCAAATTA TTTAACAGAT	60
TTAGGTCTAG TTTTCCCTGA ATCATTAAAA GAATTTGAGA GTGAAGATAG TTTTGCAAAG	120
GAAATTTCTG CAGAAGAAGC AAATAAGATA AATGATGCTG ATGTAATCAT AACTTATGGT	180
GATGATAAAA CTCTTGAAGC TTTACAAAAA GATCCTCTTT TAGGTAAAAT AAATGCAATT	240
AAAAATGGTG CCGTTGCTGT AATTCCAGAT AATACACCGT TAGCAGCCTC ATGCACTCCA	300
ACACCACTTT CAATAAACTA TACTATTGAA GAATACCTAA ATCTTTTAGG AAATGCATGC	360
AAAAATGCGA AATAAAAAC AAATAAACCT AGGCATAATT TTTATAATCT GCCTAGGTCT	420
TCTTATTACA ATATTTTGT CATTAAAGCT TGGAACAAAA GAAATTAATA TCAGAGATTT	480
TTTAGCAGCT TTTGGAATGG GTAATACAAA TGATGATTTT ATTAAATCAA TTATATATAA	540
ragaatacct agaactattt ttgcaatttt agcaggttct agtcttgcca taagcggtgt	600
ATTGATGCAA TCAGTTACTA GAAACCCAAT AGCTGATCCA GGTATACTCG GTATAAACAC	660
AGGAGCAAGT CTTAGTGTAG TAATTGGTCC TTCLTTTTAG GGAATTCATC AAGCATAA	718
(2) INFORMATION FOR SEQ ID NO: 296:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1436 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 296:	
GAACTAATCA TTTTTACAGG ATGAGATTTA CAGCAGAGAG TTTGAAGGCT TTATCAAAGG	60
TTTTTCTTGG CATAATGACT TTTCCTCGTT TCCACTTAAT TTTGTGTCTA CTTTATTATA	120
CCAAGTCCAC SCTTAAGTTA GATAATAAAT CTAACTTAAG GAAGCTAGAA GGATGAGAAT	180
CCAGGTGGTC AAGAGTCCCA AACTTAAGCT GATGGGGACA CCCAGAATAA TTTGCTTTTT	240

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GAAGGCAAGG	CCACGTTCCT	CTATATTGGG	AAGTGAGAGT	TGAATGAGAG	AACCAGCTGA	300
TGAAAAGGGT	GAGATATTAG	TAGATAGAGC	GCCAATAACG	GTGGCTGTTG	TGAGTAAGTG	360
AATATCAATC	TGAGGATTTT	GAGCACTGAT	GATAGCAATG	ATGGGAAAGA	GGGCTGGAGC	420
TACAACGGAT	AGGGTGGAAC	TAAAGAGTGA	CATCACTCCG	GCTATCACAC	AAAAGAACAG	480
AGGTAACCAG	AAATGAGGAA	TGGTTGTTGT	CATGAGGTGC	CCTATCAGTG	TGACTAAACC	540
TGACTTGACC	GCTAGAGACA	TTAGTAAGCT	CATGCCGCAG	AGCATGATAA	TTGTAGCCCA	600
GGGAACCTTA	GCTAAAATGG	CTTCTTGCTT	CCCTAATTTG	AGCCTTAAGG	CGAGGCAGAC	660
CATGAGTATT	GAGACAAAGC	CAATATCAAA	TGTTTTTTGA	TAAGTAGCTA	TCCAGGCGAT	720
GTTTGGGAAA	ATGAGATGCA	ACAAGGGAAA	AAGCCAAACC	AAAACCATGC	TGCTGATCAT	780
GAGCAAGGTG	GTTTGTCTTT	GAACCTTGCT	GAGGAGTGGT	GGTTGGTCAA	TAGTCAAGGA	840
TGAGTTTGTT	CTTCCCTTAC	TATAGTGACT	GTAACAGGAT	AATAAAAGCA	AGACGATGAG	900
TGGGTAGATA	ATGCTGACGA	TAAAGATATG	ATTGCCAAGT	GAAAAAGCTT	GCTCTTCCCA	960
TCCCATTTGC	TTAAACAGGC	CTTGAAAGAC	AATGCCTGAG	CTACTGGTTA	TCAAATTAGC	1020
CCCTCCTGAA	GCTCCCCAAT	TGACGGCTTG	AGCTCCAATC	AAAGGGTGTT	TGTCCGCTTT	1080
TTGACAGAGG	GTAATCGCTA	GAGGACAGCA	AACGGCCATA	GTAGTGAAAA	ATCCAGCACC	1140
TAAAGCAGAC	AAAAGGGTTG	CCATCAGGTA	TAAAATCATG	TAGAGGGCGT	TAGGGTGGGT	1200
GCGTGTGCGG	TAGAGAATGT	GTTGAGCCAA	AACATCAAGA	GTACCGTTAG	TTGTTGCAAC	1260
GTTATAAAAG	AGAGAGACGC	TAAAAATGGT	AAAAAGAGT	GAGGTTGGCC	AAAAATGAAG	1320
AAGTTCTTTG	GGGCTTAATC	CCATGAGAGT	GGTTGCGATG	AGGTAAGAAA	AAGCAATAGC	1380
CAGCAGGCCA	ATATTGATTT	TGGTGCGGTA	ACCAATTCCA	ATGGCTAGAG	CAATGG	1436
(2) TATEORNI	MTON POD CE	O TO NO. 20				

(2) INFORMATION FOR SEQ ID NO: 297:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1696 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 297:

CCATTTGGGA AAGAACGTAA GAGTTTGCAG GGTGAGATTC CAGAAGAATT TTCAATGTCA GCCGTTGACA TGTCTATGAT TGACCACATT CCAGATATGA TTGAAAATGG TGTGGACAGT 120 CTAAAAATCG AAGGACGTAT GAAGTCTATT CACTACGTAT CAACAGTAAC CAACTGCTAC 180

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		·	1328			
AGGCGGCTG	TGGATGCCTA	TCTTGAAAGT		TTGAAGCTAT	CAAACAAGAC	240
TGGTGGACG	AGATGTGGAA	GGTTGCCCAA	CGTGAACTGG	CTACAGGATT	TTACTATGGT	300
CACCATCTG	AAAATGAGCA	CTTCTTTCCT	GCTCGCCGTA	AAATTCCTGA	GTACAAGTTT	360
STCGCTGAAG	TGGTTTCTTA	TGATGATGCG	GCACAAACAG	CAACAATTCG	TCAACGAAAT	420
STCATTAACG	AAGGGGACCA	AGTTGAGTTT	TATGGTCCAG	GTTTCCGTCA	TTTTGAAACC	480
TATATTGAAG	ATTTGCATGA	TGCCAAAGGC	AATAAAATCG	ACCGCGCTCC	AAATCCAATG	540
SAACTATTGA	CTATTAAGGT	GCCTCAACCC	GTTCAATCAG	GAGATATGGT	TCGTGCATTA	600
AAGAAGGAC	TCATCAATCT	TTATAAGGAA	GATGGAACCA	GCGTCACAGT	TCGAGCTTAA	660
BAAAGGAAAA	GGAAATGATA	GAGGCACAGG	GTTTCTTAGT	GGATAAGCAA	ACAAGATGCA	720
TCATTACCA	TAGCAAGCTG	GATATTATTG	CTTTACAATG	CTATGATTGT	AAAAAGTATT	780
TGCTTGTTA	TCGGTGTCAT	GATTCATTAG	AACATCACCC	TTTTGAGCCG	TATCCCTTAT	840
TTTGATACA	GGATAAGCCT	ATTTTATGTG	GTGTTTGTCT	ААААСТАСТА	ACATATAAGC	900
ATATAAAGA	AAGCTTAAGT	TGCCCCTTTT	GTTTTTCTCG	CTTTAATCCA	GGTTGCCAAA	960
TCATAAGGA	ACGCTATTTT	AAATAGCAAA	TCATCTAGTT	TTGAAGTAGG	AGAAAACTCA	1020
TTTCAAGAG	AAAATGAAGT	AAATCTTCCC	ACAATAAAAC	GCATAATATC	AAGATTGTTC	1080
ATACCTGAT	ACTATGCGTT	TTTAAGATTT	TAAAGACTTT	TTTCCTTTAT	CTGGTATTTT	1140
actacttgt	TAAAACTGGG	TTAATTTTCG	ACTGTTTAAT	AGTTATTATG	CAAAGTCTAA	1200
aggttagaa	TTGTCAAAAC	AATCCGTCTA	GAGTATGCGT	GATGCCAACC	GTGGTGGATG	1260
TCTCAGTCA	TGCCGTTGGA	AGTACGACCT	TTACGATATG	CCATTTGGGA	AAGAACGTAA	1320
AGTTTGCAG	GGTGAGATTC	CAGAAGAATT	TTCAATGTCA	GCCGTTGATA	TGTCTATGAT	1380
GACCATATC	TCAGATATGA	TTGAAAATGG	TGTGGACAGT	CTAAAAATCG	AAGGACGTAT	1440
GAGTCTATT	CACTATGTAT	CAACAGTAAC	CAACTGCTAC	AAGGCGGCTG	TGGATGCCTA	1500
CTTGAAAGT	CCTGAAAAGT	TTGAAGCTAT	CAAACAAGAC	TTGGTGGACG	AGATGTGGAA	1560
GTTGCCCAA	CGTGAACTGG	CTACAGGATT	TTACTATGGT	ACACCATCTG	AAAATGAGCA	1620
TTGTTTGGT	GCTCGTCGTA	AAATCCCTGA	GTACAAGTTT	GTCGCTGAAG	TGGTTTCTTA	1680
GATGATGCG	GCGGTA					1696

(2) INFORMATION FOR SEQ ID NO: 298:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1022 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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		298:	SEQ ID NO:	SCRIPTION:	SEQUENCE DE	(xi)
60	TGCAATAAGA	TGAATTTGCT	TCTCAAAGAT	TCGGAATTTA	TATGGTTTCT	CCGAGTTTAT
120	TTCGCAGGTG	TCGTTCGATG	AGTATGCGAT	AGCAAATTTA	TTATAGTCAA	AAGAAAGTCT
180	AATAAAATTG	TGACTTGATT	CAGTTGGGGC	GCTGCAGGTG	CTTCAGTACT	CATTTTTAAC
240	GCCTACATTG	TTGGGGCTTG	TCGTTTTTGC	CTCTTTCCAT	TGGACGCTTC	CACCAGGTAG
300	GGTAGTTTCT	CTTGACTGCT	ACATGATGTT	GTCACTTCAA	TGCCGAGTTG	PTTTTTTGAA
360	TTGTTCAACC	ATACTGTACC	AGATTTTACT	AAAACAGCTG	CTCTTGGAGA	ТАААААА
420	GCGAATCTGA	GGCAGCCTAT	TTGCTCATTC	GGGTGGGGCT	CTTGATAGCA	TATCGGAGC
480	AATGAATTGG	AGGCCGCTCA	AGATGAAGTT	GGTGTTGTTG	TTTCATCTCA	CACACGATAG
540	TCATTTATTT	TGCGATTCTG	TTGTAAATAT	GCAAATATTT	GGCGATTTTG	TCTTGCTTGA
600	ATGTTTGTAT	AGCTATTTAC	TTGTGTTGTC	AAACTTTGGC	TGGTGGTGCC	rggtcaaaga
660	AAATTCAGTG	CGCGATTGTG	TTGCTTCTTT	GCGGCGAACT	CGAGCACATT	ГСТТААСААА
720	TGGGGTGTGA	GCTTCGCCAC	TTGGAAATAT	AACTTCGGTG	TTCAATTGCC	TTGCTGCGGA
780	GCCTTCCTCA	TCTTCCATAT	TCTTGATGGG	GGAGGAGGCC	AAACTTTATC	CTTTCATCGG
840	GTGCTTTTTT	CGATTGAGTC	AAAATGAGCA	GTAGATTAAG	AGATACTTAT	ATAAAAACGA
900	TGATATTTGT	TATAGAAAAC	ТАТАТСАААА	AGCTATTTCT	ATAAGGTAAT	CATTTTCAAA
960	CACCTTATGA	ATATGGAGGT	TAATAAAATA	ACAATATCCT	TCAAGGTGCT	AFACTATAAC
1020	GCTCCAGCTA	TCAAGTTGTG	TACATGCTGG	ACTCTACAAC	TAAATnTGAA	CTTGTGATTT
1022						T

(2) INFORMATION FOR SEQ ID NO: 299:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 663 base pairs

- (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 299:

CCTTAAGTAA TCTCTGATAA TATTTTCTTT ATTAGCATAG GGGAATATCG ATATAATGGC 60 TTCATTATGA GTGGCAGGAA TATCCAATAT GGCAACTTTT CCAATAGATA ATTTAAAACT 120 CATTAATAAA GTTCCTTTAG GTGAAATGTC TATTTTCTTT GATTTTAATG CTAATTTAGA 180

1330	
AATAGATTCT CTCGCATTAG TTACATAACC AGATATAGGC ATATCTGATA TAGATACCCA	24
AGGTATTTCA GTTCCCCAAA AAGTAGCTTC ACTGCGTGGA GGAGTTTTTC CTATTCTGAA	30
GTTAACTAGG CTAGCAAATT TAATATATCT CCATGCTTCT GGGATTTCAT ATATAGGATA	36
AGAGGTTGTT TCGTCTTTGT TCCCATAATA AGAGTTATCA TCTCCTTGGG AAACAATAGA	42
AATGTCCAAA TCTTTCTTTT TAATCTTGCC TTCTTCAAAG AGTTTTTGTT TTTCTGCTCG	486
TATTTTTCA AGTAAAACTT CGACTGATTC ATCATTTGGG TCTTGTTCAA CTAATTTTCC	540
TTGCATAGCA TATTGAAGAA TAGATTTTTT TAGTTTATCT GGAAATTCTT TATCTAGCTG	600
TTCTAGTCTA TTATAACTTT CAGCATATTC ATCTACTTTT TCTAAAGCTG ATTCGATTGC	660
TTC	66:
(2) INFORMATION FOR SEQ ID NO: 300:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 881 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 300:	
CGTCGCTGAA CATGTCAACA GCAAATTAAA CTAAACAAAC TAAAATTATG TGATACTTCA	60
CATAATTTTC TTTAGAAAAT ATTATCAGAA GAAAGTTGAG AAAAATGGCA GAAAAAACAT	120
ATCCTATGAC CCTTGAGGAA AAGGAAAAAC TTGAAAAAGA ATTAGAAGAA TTGAAATTGG	180
TTCGTCGACC AGAAGTGGTA GAACGCATTA AGATTGCCCG TTCATACGGT GACCTTTCAG	240
AAAACAGTGA GTACGAAGCA GCTAAGGATG AACAAGCCTT TGTCGAAGGA CAAATCTCTA	300
GCTTAGAAAC AAAAATCCGC TATGCTGAAA TCGTCAATAG CGACGCAGTT GCCCAGGACG	360
AAGTAGCGAT TGGTAAAACA GTCACCATCC AAGAAATTGG TGAGGACGAA GAAGAAGTTT	420
ATATTATCGT AGGTTCAGCT GGTGCAGATG CCTTTGTAGG TAAGGTTTCA AATGAAAGCC	480
CAATTGGGCA GGCCTTGATT GGCAAGAAAA CAGGTGATAC AGCAACCATT GAAACGCCTG	540
TTGGTAGCTA TGATGTAAAA ATCTTGAAGG TTGAAAAAAC AGCCTAAAAA CAGAAAAAGG	600
AGTGGGGAGG CGATGTGCTT CACTCACTCC TTTTTCCATT TTGCTACTCT TCGAAAATCT	660
CTTCAAACCA CGTCAGCGTC GCCTTGCCGT ATGTATGGTT ACTGACTTTG TCAGTTTCAT	720
CTACAACCTC AAAACAGTGT TTTGAGCTAA CTTCGTCAGT TTCATCTACA ACCTCAAAAC	780
TATGTTTTGA GCTGACTTCG TCAGTTTCAT CTACAACCTC AAAACCATGT TTTGAGCCGA	840

881

CTTCGTCAGT TTCATCTACA ACCTCAAAAC TATGTTTTGA G

1331

(2) INFORMATION FOR SEQ ID NO	(2)	I	OR	S	SEO	ID	NO	٠:	30	
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(1)	SECUENCE	CHARACTERISTICS:

(A) LENGTH: 949 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 301:

CCTTT	TTTAA	TACAAGTTAT	TTTGATTTAA	CCGGCTTGTC	TTGAGCTGTC	TGCAAAGCTG	60
TGGCA	ATCGT	ATCTGCATAC	AATTTTGCTC	CTGCTTCGAT	AGTGCTACTC	TCACTCCCGA	120
AATGA.	ACCTG	GTCTGTTCCA	GCCCAAATTT	CTGGATGCTC	TTTCGCAACT	TGATTCCAAT	180
CTGCT.	ATCGT	AATGTAAGGT	GTCTTCTCTG	CCAATTCTCT	CATATAGGCA	GCAGCCTTCT	240
CAACG	ATGGC	ATAGGTCTCT	TTTGTCTTAT	CTCCCTCATA	AGGAGTCACC	AAAATCATAT	300
GGTGT	CCCTT	AGGAAGATTT	TTCACGATAC	TGTCCCAGTC	ATCCTTGTAA	TTCTCAGGAT	360
TATTT.	ACCCC	AGTCGCAATG	ACCACCGTCT	TAGGTAAAAA	TTTATTCTGG	СТАТТАТТТА	420
GCATG	ATTTC	ATTTGCGGTC	TTGGTTGTTA	CGCTGACCTG	CGCGTTAATC	TGTGCTCCAG	480
GAAGA	GCTGT	CTGTAGTGCT	GTATTTGCCC	TTAAAGCCAC	TGAGTCACCA	ATTAACATAG	540
rgcca'	TCAGC	AATTCCCAAA	CTGTTTGCAT	CTGCCCGTTC	TGCCATCACC	TTGGTCTGGC	600
CAATA	TTTGT	TGCAGCTTGC	TTCAAGCCAT	TGACAGTCAA	GTCTGTCTCA	AACGCTCCCA	660
CTTGT	GGTGC	CAACAAGGTC	ACCGTGCAGA	CAATGATGGT	CAAGATTCCT	GTACCTGCTG	720
CAAGA	ATTGC	GTGAATATAA	GGCAGGGGAC	GAAsGGTTTG	GACAATAGGT	GTGTTCTTGC	780
CTGCA	ATCCA	AGGTTCCAAT	ACATAAAATG	ACAGACTGGC	AAAGCCATAA	GAACAAATCA	840
GAGTC	AGTAA	TACAGCAAGA	AGATTTGATG	TCAACTGTGA	GAAAATGATA	TAGAAAGGCC	900
AATGG:	AAAAG	ATAAACCGCA	TAGCTAGTAT	CCGCTAAAAA	GCTGATAAT		949

- (2) INFORMATION FOR SEQ ID NO: 302:
 - (i) SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 622 base pairs

 (B) TYPE: nucleic acid

 (C) STRANDEDNESS: double

 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 302:

AAGATATATT TTTTACACAG AAGTATGCAA AAGTAAAGAG TGCAAAAAAT GGAATTAAAG

CGAAAATAAA AG	CCGTGTAC AGGCGAC	1332 CAA ACCAACGTAC	ACGGCTAAGG	АААААТААСА	120
AAACTCAAGC AA	AGGCAAGG CGCGTGG	TTT TGTTAGGTAT	TTAGCAAGGG	GACAAACCCC	180
TTTGTAAATA AT	CTCCTCTT ATTTTAT	CAA AATTAGAGGA	AAATGACAAC	ттаатттата	240
AAAAGGAAAA AT	GGAGGATA TAAATGG	AAA TTCTGTCTAA	AGAAATACAG	TTACAGGGCT	300
TACAACTTCT TA	AACAGACT CTTGAAA	CTT TAGTTGAGCT	AGAAAAACAA	CGATCTAGTA	360
AGTTAGATTT AA	TTTCTCGT AAAGAAT	TAA TGGATCTGCT	AGGTATAAGT	GCTACAACCC	420
TTGATAACTG GG	AGGATCTT GGTCTTA	AAC GATATCAGAC	TCCGATGGAT	GGAGCTAAGA	480
AAGTATTCTA TC	GTCCGTCA GATGTGT	ATT TATTTTTAGC	AATAAAATAG	GAGTTATGAA	540
ATGAAAATTG TT	ACTTTCAA ACCAACT	AAA CAAATAGACG	ATGGGTTTTA	ACTGCCAGGT	600
ATTGACATTC TA	TTTGTCTC AG				622
(2) INFORMATION	ON FOR SEQ ID NO	: 303:			
(A) (B) (C)	ENCE CHARACTERIS' LENGTH: 1929 ba: TYPE: nucleic a STRANDEDNESS: d TOPOLOGY: linea:	se pairs cid ouble		. `	
(xi) SEQ	UENCE DESCRIPTION	N: SEQ ID NO:	303:		
CGCTAACTTG CA	AACAAAAG AAGAACG	CAA ACTCCACAAA			
			TCCTTTACGC	AGAAACTCAA	60
TCTCATCTAC TT	ACCTTGCT GACTTGG				60 120
	ACCTTGCT GACTTGG	TAG AGTATGTTGC	AGACAAAGAC	TTCTCAGTAA	
ACGTAATTTC TA		TAG AGTATGTTGC	AGACAAAGAC TGCTTTCCGT	TTCTCAGTAA GTCTTTAAAG	120
ACGTAATTTC TAI	AATCAGGT ACAACAA	TAG AGTATGTTGC CTG AACCAGCGAT AAG AAGCTAACAA	AGACAAAGAC TGCTTTCCGT ACGTATCTAT	TTCTCAGTAA GTCTTTAAAG GCAACAACTG	120 180
ACGTAATTC TAA AACTCTTGGT TAA ACCGCCAAAA GGC	AATCAGGT ACAACAA AGAAATAC GGTCAAG	TAG AGTATGTTGC CTG AACCAGCGAT AAG AAGCTAACAA AAG CAGACGCTAA	AGACAAAGAC TGCTTTCCGT ACGTATCTAT CGGTTGGGGA	TTCTCAGTAA GTCTTTAAAG GCAACAACTG ACATTTGTTG	120 180 240
ACCGCCAAAA GGCTTCCAGATGA TA	AATCAGGT ACAACAAG AGAAATAC GGTCAAG GTGCTGTT AAGGTTG	TAG AGTATGTTGC CTG AACCAGCGAT AAG AAGCTAACAA AAG CAGACGCTAA CAG TATTGACAGC	AGACAAAGAC TGCTTTCCGT ACGTATCTAT CGGTTGGGGA CGTTGGTTTG	TTCTCAGTAA GTCTTTAAAG GCAACAACTG ACATTTGTTG CTTTCAATCG	120 180 240 300
ACGTAATTTC TAA AACTCTTGGT TAA ACCGCCAAAA GGG TTCCAGATGA TAA CAGCATCAGG AGG	AATCAGGT ACAACAAG AGAAATAC GGTCAAGG ETGCTGTT AAGGTTGG TCGGTGGA CGCTTCTG	TAG AGTATGTTGC CTG AACCAGCGAT AAG AAGCTAACAA AAG CAGACGCTAA CAG TATTGACAGC TTA TGGAAGGTGC	AGACAAAGAC TGCTTTCCGT ACGTATCTAT CGGTTGGGGA CGTTGGTTTG GAATGCAGCT	TTCTCAGTAA GTCTTTAAAG GCAACAACTG ACATTTGTTG CTTTCAATCG CGCAAAGACT	120 180 240 300 360
ACGTAATTC TAA AACTCTTGGT TAA ACCGCCAAAA GGG TTCCAGATGA TAA CAGCATCAGG AGG ACACTTCAGA CAA	AATCAGGT ACAACAAGAGAAATAC GGTCAAGAGGTGGTGGTGGA CGCTTCTGCTGACATA AAAGCTC	TAG AGTATGTTGC CTG AACCAGCGAT AAG AAGCTAACAA AAG CAGACGCTAA CAG TATTGACAGC ITA TGGAAGGTGC AAG CTTACCAATA	AGACAAAGAC TGCTTTCCGT ACGTATCTAT CGGTTGGGGA CGTTGGTTTG GAATGCAGCT CGCAGCTGTT	TTCTCAGTAA GTCTTTAAAG GCAACAACTG ACATTTGTTG CTTTCAATCG CGCAAAGACT CGTAACATCC	120 180 240 300 360 420
ACGTAATTTC TAA AACTCTTGGT TAA ACCGCCAAAA GGG TTCCAGATGA TAA CAGCATCAGG AGG ACACTTCAGA CAA TTTATCGTAA AGG	AATCAGGT ACAACAAG AGAAATAC GGTCAAGG ETGCTGTT AAGGTTGG TCGGTGGA CGCTTCTG CTGACATA AAAGCTC	TAG AGTATGTTGC CTG AACCAGCGAT AAG AAGCTAACAA AAG CAGACGCTAA CAG TATTGACAGC TTA TGGAAGGTGC AAG CTTACCAATA TCT TGGTAAACTA	AGACAAAGAC TGCTTTCCGT ACGTATCTAT CGGTTGGGGA CGTTGGTTTG GAATGCAGCT CGCAGCTGTT TGAGCCATCA	TTCTCAGTAA GTCTTTAAAG GCAACAACTG ACATTTGTTG CTTTCAATCG CGCAAAGACT CGTAACATCC CTTCAATACT	120 180 240 300 360 420
ACGTAATTC TAA AACTCTTGGT TAA ACCGCCAAAA GGG TTCCAGATGA TAA CAGCATCAGA CAA ACACTTCAGA CAA TTTATCGTAA AGG TCTCAGAATG GTG	AATCAGGT ACAACAAG AGAAATAC GGTCAAGG ETGCTGTT AAGGTTGG FCGGTGGA CGCTTCTG CTGACATA AAAGCTCT AAATCTCT GAAAACGG	TAG AGTATGTTGC CTG AACCAGCGAT AAG AAGCTAACAA AAG CAGACGCTAA CAG TATTGACAGC ITA TGGAAGGTGC AAG CTTACCAATA ICT TGGTAAACTA ETG AATCAGAAGG	AGACAAAGAC TGCTTTCCGT ACGTATCTAT CGGTTGGGGA CGTTGGTTTG GAATGCAGCT CGCAGCTGTT TGAGCCATCA AAAAGACCAA	TTCTCAGTAA GTCTTTAAAG GCAACAACTG ACATTTGTTG CTTTCAATCG CGCAAAGACT CGTAACATCC CTTCAATACT AAAGGTATCT	120 180 240 300 360 420 480
ACGTAATTTC TAA AACTCTTGGT TAA ACCGCCAAAA GGG TTCCAGATGA TAA CAGCATCAGG AGG ACACTTCAGA CAA TTTATCGTAA AGG TCTCAGAATG GTG ACCCCAACTTC AGG	AATCAGGT ACAACAAG AGAAATAC GGTCAAGA GTGCTGTT AAGGTTGA CTGACATA AAAGCTC AAATCTCT GAAAACGA GCTATGCA ACTGAGAA GGAAACAA TTGGCTGC	TAG AGTATGTTGC CTG AACCAGCGAT AAG AAGCTAACAA AAG CAGACGCTAA CAG TATTGACAGC FTA TGGAAGGTGC AAG CTTACCAATA FCT TGGTAAACTA GTG AATCAGAAGG ACT TGCACTCACT	AGACAAAGAC TGCTTTCCGT ACGTATCTAT CGGTTGGGGA CGTTGGTTTG GAATGCAGCT CGCAGCTGTT TGAGCCATCA AAAAGACCAA TGGTCAATTT	TTCTCAGTAA GTCTTTAAAG GCAACAACTG ACATTTGTTG CTTTCAATCG CGCAAAGACT CGTAACATCC CTTCAATACT AAAGGTATCT ATCCAAGAAG	120 180 240 300 360 420 480 540

TTGTAAACAA AAAAGCAACT GACGGTGTTC TTCTTGCCCA CACAGATGGT GATGTACCAA

1333

ACATGTATGT	GACTCTTCCA	GAGCAAGACG	CTTTCACTCT	TGGTTACACT	ATCTACTTCT	900
TCGAATTGGC	AATTGCCCTT	TCAGGTTACT	TGAATGCTAT	CAACCCATTT	GACCAACCAG	960
GTGTTGAAGC	TTATAAACGT	AACATGTTTG	CCCTTCTTGG	AAAACCAGGA	TTTGAAGAAT	1020
TGAGCAAAGA	ACTTAACGCA	CGTCTATAAT	AGAAGAAAAG	AGTGGTTTGC	CCACTCTTTT	1080
TACTCTCTTT	ATCCATAGAA	ATTGGACTCA	GCCAAGACTT	GTGATATAAT	ATAGAAAGCA	1140
AAAAGGCAGA	CGCCTAGATA	ATAGGAGAAA	CTATGTCAAA	AGATATCCGC	GTACGTTACG	1200
CACCAAGTCC	AACAGGACTA	CTACACATCG	GAAATGCTCG	TACAGCATTG	TTTAATTACT	1260
TGTATGCGCG	CCATCATGGT	GGAACATTTC	TCATCCGTAT	CGAAGATACT	GACCGTAAAC	1320
GCCATGTCGA	GGATGGTGAA	CGTTCACAAC	TTGAAAACCT	TCGCTGGTTA	GGCATGGATT	1380
GGGATGAAAG	TCCAGAATCA	CATGAGAATT	ATCGCCAGTC	TGAGCGTTTG	GACTTGTATC	1440
TATATAAAAA	TGACCAACTA	TTAGCTGAAG	GAAAAGCCTA	TAAATCTTAC	GTTACAGAAG	1500
AAGAGTTGGC	AGCTGAACGC	GAACGCCAAG	AAGTAGCTGG	CGAAACACCA	CGCTACATCA	1560
ATGAATACCT	TGGTATGAGT	GAAGAAGAAA	AAGCAGCTTA	CATCGCAGAA	CGTGAAGCAG	1620
CAGGGATCAT	CCCAACTGTT	CGTTTGGCTG	TCAATGAGTC	AGGTATCTAC	AAGTGGCATG	1680
ATATGGTCAA	AGGCGATATC	GAATTTGAAG	GTGGCAATAT	CGGTGGTGAC	TGGGTTATCC	1740
AAAAGAAAGA	CGGTTACCCA	ACTTACAACT	TTGCCGTTGT	TATCGATGAC	CACGATATGC	1800
AAATCTCTCA	TGTTATCCGT	GGAGATGACC	ATATTGCTAA	TACACCAAAA	CAGCTTATGG	1860
TCTATGAAGC	TCTTGGTTGG	GAAGCTCCAG	AGTTCGGTCA	CATGACCTTG	ATTATCCACT	1920
CTGAAACTG						1929

(2) INFORMATION FOR SEQ ID NO: 304:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 708 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 304:

AAATTTAAGA	AAAAGGAGAC	ACATCATGTC	TAAAAAAGTA	TTATTTATCG	TCGGATCACT	60
ACGTCAAGGT	TCTTTCAACC	ACCAAATGGC	GCTCGAAGCT	GAGAAAGCAC	TTGCTGGTAA	120
AGCGGAAGTT	AGCTACCTTG	ATTATTCAGC	CCTTCCTCTC	TTCAGCCAAG	ATTTGGAAGT	180
TCCAACACAT	CCAGCTGTAG	CTGCTGCTCG	TGAAGCAGTT	CTCGTTGCGG	ATGCTATCTG	240

1334

GAPPPPCPCP CCAGTCTACA ACTTCTCTAT CCCTGGTACA GTGAAAAACT TGCTTGACTG	300
GCTATCTCGT GCCCTTGACT TGTCTGATAC ACGTGGCGTT TCTGCCCTTC AAGACAAGTT	360
TGTCACAGTA TCATCTGTAG CCAATGCAGG GCACGATCAA CTTTTCGCTA TCTACAAAGA	420
CCTCTTGCCA TTTATCCGTA CACAAGGCGT TGGTGATTTC ACTGCTGCAC GTGTTAATGA	480
CTCTGCCTGG GCASACGGAA AATTGGTTCT TGAAGAAACA GTCCTAAACT CACTTGAAAA	540
ACAAGCTCAA GACTTGGTCG AAGCTATCAA GTAACTAACA CTCAATAAAA ATCAAAAAGC	600
AAACTAKGAA GCTAYCCGCA AGCTACTCAA GCACTGCTTT GAGGTTGTAG ATAGAACTGA	660
CGAGTGTnnA ACATATATAC GGTAAGGCGA CACTGACGTG GCTTGAAn	708
(2) INFORMATION FOR SEQ ID NO: 305:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 781 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 305:	
CTTCTTTTCT TGGAAATAGG TGTATAATAC GTTTATTAAA TTTTTGAGGA GTTGTCTATG	60
AAGAAAAGTT TTATCCATCA ACAAGAAGAA ATTTCCTTTG TCAAAAACAC TTTTACCCAG	120
PATTTGAAAG ATAAGCTAGA AGTTGTCGAA GTTCAAGGTC CTATCTTGAG TAAGGTCGGT	180
GACGGAATGC AGGACAACCT GTCTGGTGTG GAAAATCCAG TATCGGTCAA GGTTCTCCAA	240
ATCCCTGATG CTACTTATGA AGTGGTGCAC TCACTTGCTA AATGGAAACG CCACACCTTG	300
SCTCGTTTTG GCTTTGGTGA AGGAGAGGGT CTCTTTGTCC ACATGAAAGC CCTTCGTCCA	360

GATGAGGATT CCTTGGATGC AACCCACTCT GTTTATGTTG ACCAGTGGGA CTGGGAGAAG

GTTATCCCAA ATGGTAAGCG TAACATCGTT TATCTAAAAG AAACAGTTGA GAAGATTTAT

AAGGCTATTC GCCTGACTGA GCTAGCTGTT GAAGCCCGCT ATGACATCGA GTCTATCTTG

CCAAAACAAA TTACCTTTAT CCATACAGAA GAATTGGTAG AACGCTACCC AGACTTGACA

CCGAAAGAAC GTGAAAATGC GATTTGTAAA GAATTTGGAG CCGTCTTTTT GATTGGTATC

GGTGGCGAGT TGCCAGATGG TAAACCGCAC GATGGACGTG CACCAGACTA TGATGACTGG

ACAAGCGAGT CTGAGAATGG CTACAAGGGT CTAAATGGTG ATATTCTTGT CTGGAATGAG

420

480

540

600

660

720

780 781

(2) INFORMATION FOR SEQ ID NO: 306:

(i) SEQUENCE CHARACTERISTICS:

		13	3	5

(A) LENGTH: 846 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 306:

CCCGCATCTT GTAGGGTTTT AACGGGCACG ATTTTCATAT CCGTCTTGAT TGTTTTAGCC 60 GCTTCTAGGG CTGTTTGGTA GTTGTTTTTC GCGTCCGGAT GCGCCTTTTG TTCTTCTTCG 120 CTAACAGGGT TATCAGGAGC AAAGAAAATA GCAGCACCTG CCCTAGCCGA AGCTACAACC TTCTTATCAA TACCTCCAAT GTCTCCCACA TTACCATCGC GGTCAATGGT ACCTGTACCG GCAACAATAC GACCATTACG AAGATCTGGG TGAGCTATTT GAGTATAGAT AGCTAGACTA 300 AACATGAGAC CAGCACTTGG ACCGCCAATA CCAGCTGTTG AAAAGCTAAT TGGGACATTG 360 CTGATTACCT CTGTACGGTC AATCAAGCCG ATTCCAATTC CATTTTTGCC ATTTTCCAAG 420 GTGATGATTT TTCCTTCTGC AGACTTGGTT TGCCCATCCT CTTCATAGGT GACCTTGACG 480 GAATCCCCTA ATTTTTGAGA ACTGACGTAA TCAATCAAGT CTTTGGAACT ATCAAAGGTC 540 TGATCATTGA CTGCTGTGAC TGTATCAGAG ATATTGAGAA TCCCTTTAAA GGTTGAATTA 600 TCCGTCACAT TCAAAACATA AACTCCAAAG TACTTGAGTT CGATATCCTT ACCAGCTGTT 660 TTTAGTCCTT GATACTTGGC CATATTTTGC GATGTTTGCA TGTAGAATTG ATTGATTCGC 720 ATAAATTCAA CATCGGAAGA ACCACCTGTA GTCTCCTGAG CACTACGAAT ATCTGTAAAA 780 GGTGTCAACC AAGCATAAAT CATATGAGCT AAAGTGGCAT GTTGAACACC AACCGTAACG 840 AATTGT

(2) INFORMATION FOR SEQ ID NO: 307:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 829 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 307:

GCGATCTGCT TGGGCTTTC CTATTACCTT ATCTAATAAA TAGGTACGCA GACTCATAAC 60

CATATAAAGT CCACCCCCA TGGCACCGAC AAGAGCTACA TAAAAGAAGC TCCACAAACG 120

TCCACTTGGT TGGAAGAAAA ATCCTAACAG CCACTGGATG GTTCCTATTA ACAGAAACAT 180

GACTAGGGTC AGCAAACTGA TTAAAATGGT TCGCTTCAAA ATCACCTTGC GCTTGACACC 240

			1336			
AGTTACTTTA	CAAATATCCC	GATACATCAA	GACGTTAGGA	ATGATGAGAG	CAATGGTTGT	300
TGAAATCAAA	GGACCATAAC	TGTGGAAGAG	GGCGATGGTA	GGTAGTTGCA	AGACTAGCTT	360
GGCAATAGAA	CCATAGATAA	AATAGAGAAC	GGCCTTGCGG	TTGCGGAACA	TGGCCTGAAG	420
CATTGGAGAC	AAGACCATGT	ACAAGCCTAA	AATAATAGAC	TGCAAAACTG	CAAAGACAAA	480
TAAGCCCAGA	GCCAAACTAT	CTGGCTTACC	ATAGAAGACC	GTATAAAGAG	GTTCTCCTAC	540
CATAACCACT	CCAACCGTTG	CTGGTAGCAA	GAACATAAAG	AGTAGGGTGA	GACTGTCCTG	600
AACGAGACGA	GAAGCTGCTT	TCAAGTCCCC	CTTGACATAG	TTTTCCGTCA	AAAGTGGCAA	660
ACCAACACTC	CCAATCGAAA	CCCCTACAGA	AATCAAAATC	ATCGTGATTT	TATTAGGATT	720
GGCTGAGAAA	TAAGAAAACA	TGACAACCAA	GTCCTCATTG	CTGTAGTTGG	TAAACCAGCT	780
CATACTATTG	ATAAAGGTCA	GCTGAGTCCA	AATCTGGAAG	AGCTGGATG		829
(2) INFORM	ATION FOR SE	EQ ID NO: 30	08:		• .	
	EQUENCE CHAP (A) LENGTH: (B) TYPE: IN (C) STRANDER (D) TOPOLOGY	464 base pa cleic acid NESS: doubl	airs			
(xi) S	SEQUENCE DES	SCRIPTION: S	SEQ ID NO: 3	308:		
CGAACATCTT	GCTGGCTGAT	TCGTCTGCCG	CCATCGCAGC	CCCGAACACA	TTGCGACCCA	60
TGGCAAGCGG	GCTCAATCCG	CACATGGGAT	CCGTGCCAAA	GCCCGCGTG	TGCATCATTT	120
GCTCATCTAG	TAACGTATGA	GGTTTGCCTT	CGCTGTCGAT	AAACCGATAT	TCAATCGCAC	180
CACTGCTCGT	TCTCCGCGGA	GGGGAAACCG	ACTGCGGTAG	GATGAACTCC	AGAGAAGAGA	240
GATCACGACC	TACCAGGTGC	GGCTCGTTGA	AGCTGTTGCC	GCTTAGCAGC	AGGCTCGCCA	300
CCACGCATTC	CCAGAACTCA	ACGGGGGTTT	GATCGGCGTT	CGGTTGCTGA	СТААТААСТС	360
GGTGCACGGG	ATGCGAAGTG	GCCACTTCTG	GCACACCGTT	CTTGTCTTCG	TAGAGAGCAA	420
TTGGGAGGGT	GGCCAGCGTT	TCGGCGATGA	GGCGCACGCA	GGCC		464
(2) THEODING	ים מחש אחדת	O TO NO. 30	no.			

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 309:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 982 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

WO 98/18931

1337

CCGTCTATAA	TGGTAATAGA	TTTTATTTGG	AGGTTTTTAT	GTCATTTCTA	TCAAAAAATG	60
GAGCAGGTAT	CTTGGCCTGC	CTTCTCATTT	CCATCCTATC	TTGGTACTTA	GGAGGATTCT	120
PCCCTGTGGT	TGGCGCGCCC	GTTTTTGCCA	TTTTCATAGG	CATGCTCCTA	CATCCCTTTC	180
PCTCGTCCTA	TAAACAACTG	GATGCTGGTT	TGACCTTTAG	TTCCAAGAAG	TTGCTCCAAT	240
ATGCCGTTGT	CTTGCTTGGT	TTTGGTCTCA	ATATCTCGCA	GGTCTTCGCA	GTTGGCCAAT	300
CTTCACTCCC	TGTCATCCTG	TCCACTATCT	CAATAGCTCT	GATTATTGCC	TACCTCTTCC	360
AGCGTTTCTT	TGCCCTGGAT	ACAAAACTGG	CTACCTTGGT	TGGAGTAGGT	TCTTCTATCT	420
CTGGGGGTTC	TGCCATTGCA	GCGACAGgCC	CGTTATTGAT	GCTAAGGAAA	AGGAAGTAGC	480
CCAAGCCATT	TCCGTTATCT	TTTTCTTCAA	TGTCTTGGCT	GCGCTCATCT	TTCCAACCCT	540
CGGCACCTGG	CTTCATCTAT	CCAATGAAGG	CTTCGCCCTC	TTTGCAGGGA	CTGCGGTCAA	600
CGACACTTCC	TCTGTAACGG	CTGCCGCCAG	CGCTTGGGAC	AGTCTTTACC	AAAGCAATAC	660
CCTCGAGTCT	GCAACCATTG	TTAAACTCAC	ACGTACTTTG	GCCATTATCC	CTATCACGCT	720
CTTTCTATCC	TACTGGCAAA	GTCGCCAACA	AGAAAACAAG	CAAAGCCTGC	AACTGAAAAA	780
AGTCTTCCCA	CTTTTTATCC	TTTACTTTAT	CCTTGCCTCT	CTCCTCACTA	CACTACTCAC	840
CTCTCTAGGT	GTGTCCAGTA	GTTTCTTTAC	TCCTCTCAAA	GAACTCTCTA	AATTCCTTAT	900
rgtcatggac	ATGAGTGCTA	TCGGTCTCAA	AACCAATCTG	GTCGCTATGG	TCAAATCCAG	960
rggaaaatcc	ATTCATCATG	GA				982

(2) INFORMATION FOR SEQ ID NO: 310:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1939 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 310:

CTAGCTGCC	A ATATGATTGG	GGTGCAGAAG	CGCGTGATTA	TCTTTAATCT	TGGÇTTGGTT	60
CCTGTGGTC	A TGTTTAACCC	AGTGCTTCTG	TCCTTTGAAG	GATCCTATGA	GGCAGAAGAA	120
GGCTGTTTG	T CCTTGGTAGG	TGTGAGATCA	ACTAAGCGTT	ATGAAACCAT	AAGGCTTGCC	180
TATCGTGAC	A GCAAGTGGCA	GGAACAGACC	ATTACCTTGA	CAGGCTTCCC	AGCTCAGATT	240
TGCCAGCAT	G AGCTGGATCA	CTTGGAAGGA	CGAATCATTT	AGGAGGAAAG	CAAATGAAAC	300
GAATAGTCT	T TGAACTTATT	TTTATCGCAA	CGACCTGGTA	ተልተነው የተመቀው ስለ	CCCCCCで でする	360

			4222			
CCTGACCAG	CTGGGAATTT	CTCTTCTTCC	1338 TCTGTGGGCA	TTTGTTAGTT	GTGGCAATAT	420
'ATTTGGCTT	TGGCAAGGGG	ATAAACCTTG	TCAAAACGGT	TCATGTGCGC	CACGGTAAGG	480
GGAAGCTGC	CTTAAATCTT	GAGGGTTTCA	AAATCAATCG	GTTAGGGAAA	ATTCTGTTAG	540
TTCGATTGG	AGGAATTCTT	CTCTTGGCAG	CTTTGGTTTc	CTTGGTAACT	TCCAGCATGT	600
TCAGGCTAA	AAATTATGCC	AATGTAGTCA	CGGTTACGGA	AAAAGACTTT	ACTGAATTTC	660
TAAGAGTGA	CACCAGTAAG	GTTCCTATCC	TAGATAGAAG	TACTGCTGAA	AAAATTGGAG	720
CCGCTACTT	GGGTTCCCTA	ACCGATAAGG	TGTCGCAATA	CGTAGCGGCA	GATACCTATA	780
CCAATTGAC	AATTGATGGG	AAACCTTATC	GGGTCACACC	ACTAGAATAT	GCAGACCCTA	840
CAAATGGTT	TAACAATCAA	GCCAAGGGAA	TCGGTGAGTA	TATTAAGGTG	GACATGGTAA	900
TGGAAATGC	GGATTTGGTG	GACTTGAAGA	CACCAATCAA	GTATTCAGAC	TCGGAGTATT	960
TAACCGTGA	TGTCAAACGT	CACCTGCGCT	TGAAGTACCC	GACCAAAATC	TTTAAAACTC	1020
ATCTTTTGA	GGTGGACGAT	GAGGGCAATC	CTTTCTATGT	AGCAACGGTT	TACCAAAAGC	1080
ATTTGGACT	TGCTGTTCCT	CGTCCTGCTT	CAGTCATTAT	CTTGGATGCT	ACAAATGGAG	1140
AACCAAGGA	ATACAGCTTA	TCAGATGTTC	CAGAATGGGT	GGACAGGATC	TATCCAGCAG	1200
GGAAACCAT	TGAGCAAATC	AACTACAACG	GCAAGTACAA	GGACGGTTTC	TTGAATGCCA	1260
GATTTCCAA	GAAAAACGTG	ACCCAGACTA	CCAATGGCTA	TAATTACTTG	TCTATCGGTA	1320
TGACATCTA	TCTCTACACA	GGTGTGACGT	CGGCTAATGC	GGATGAGAGT	AATCTTGGTT	1380
CATCCTTGA	AAATATGCGA	ACAGGAGAAA	TCACTAAGTA	TAGCTTGGCT	TCTGCGACAG	1440
AGAATCAGC	CCGTGAATCA	GCAGAAGGTG	CTGTTCAGGA	GAAATCCTAC	AAAGCAACCT	1500
CCCAATCCT	CATCAACCTC	AATGACAAGC	CTCTCTACAT	CATGGGCTTG	AAGGACAATG	1560
TGGCTTGGT	CAAAGAGTAC	GCCCTGGTAG	ACGCAGTCGA	GTACCAAAAT	GTTATCGTTG	1620
TACTACAGT	GGAAGAGATG	CTCAGCAAGT	ATGCCAATAA	AAACGACCTT	GAAATTGACA	1680
TGCAACGAC	AGAAAGCATC	AATGGAGTAG	TAGCAGACCT	CAAATCAGCT	GTTATCAAGG	1740
AGACACTGT	CTACTTCTTT	AAAGTTGATG	GCAACATCTA	CAAGGTCAAG	GCTTCAGTAT	1800
CGATGACCT	TCCTTACCTT	GAAAATGGTA	AAACCTTCGA	AGGTCAAGTA	GGAAAAGACA	1860
ттатстсаа	GACCTTTAAG	CTACGGTAAA	AATAGGTTTT	TTTCAGAAAG	TATATGTTAT	1920
ATAAGGTAA	ATTAAGCCG		•			1939

(2) INFORMATION FOR SEQ ID NO: 311:

⁽i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 907 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 311:

CCTGCTAATA	GAGAGAAAGA	CTAGGAGTAG	AAGTAAGCCA	TAATAAATTA	GAGAAAGTTT	60
CATACCCCGT	CCTTTCATGT	AGATTTGGTA	TCGAAAGATA	TCTGCGGATA	TAAATGTAAC	Î20
ATTATTTTTC	TAATCTGTCA	ATAAAATTTC	TGACAATTTA	ATAAATACAA	CAAGGAGAGA	180
GCAACAAGAC	TTTCTCCTTT	GTTATCCTAT	TCTAAAATGT	TTTTACCTTA	ATCTGATAAA	240
ATAATATCTT	CGAGGGAGTA	GCTAGCCGTC	CAATCAAGAT	ATTGTTTAGC	TTTTGAAGCA	300
TCTGCTAGGA	CACTGGCTGG	GTCACTAGCA	CGTCGAGCAA	CAATCTCGTG	TGGGATTTTT	360
TAATTTAGTA	ATTCTTCAGC	AGTTTTAAAG	ATTTCTTTGA	TAGTATAGCC	TTTTTTAGTT	420
CCTAAGTTAA	AGATTTGAGA	AGAACTGTCT	TCTTGAAATA	GGTAGTTCAT	TCCTTTAACA	480
TGAGCCTATG	CAAGGTCCAA	GACATAAATG	TAATCTCGAA	TACATGAACC	GTCACGTGTA	540
TCGTAGTCAT	CTCCAAATAT	TTTTAAGCTA	TCATTTTGTC	CCAATGCGGT	CTTGTTGATA	600
TTTGGAATGA	TGTGAGTTGG	ATTTTTCACA	CGCAGACCGT	TTGAAGCATC	CATTTCAGCC	660
CCAGCAACAT	TAAAGTAACG	GAAAATAACA	TATTTCCAGT	CGTAGCGATT	GGCCATCCAG	720
TAAATCATTC	GTTCGCCCAT	CAGTTTTGTC	TCTGCATAAG	GGTTGACAGG	GTCGAGCAGG	780
GTATCTTCAG	TCACCGGCTT	ĠTCAATACAG	TTATTTCCAT	AGAGAGAAGC	AGTCGAAGAG	840
AACATGATTT	TTTGAATGCC	AACTTCAGAT	AAGACTTTGA	GAACTTGGTT	CATACCAGCA	900
ACGTTGG						907

(2) INFORMATION FOR SEQ ID NO: 312:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2170 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 312:

CCACATAAAG GTAAATATCT TTTGTACTAT CTTGGGCATC CAAGAAAAGC AATTGGGCAA 60 TAACAGAGTT AGCCATATTG TCTTCAACCG GACCTGTCAG CATAATGATG CGGTCTTTGA 120 GAAGACGTGA GTAAATATCG TAAGAACGTT CTCCACGGCT TGTTTGTTCA ATAACTACAG 180 GAATCATTCA TTTCTCCTTT TGAGTTTTAA TTTTGTTGGT CAAATGACTG AAGATAAGAC 240

300	AGACAGAAAC	TGCTTTCATT	1340 ATTTTTGCTC	AAAAGGTCAA	TCTTGGTCAA	таттатаата
360	CTTTTCGATC	AGTCATTCTT	тасттттсса	TGACTGGAAA	CCTCCTTTCG	ааааасссаа
420	TATAACCGTG	CCTGGAACGA	ATCTCCAAGA	GGTCTCCAGC	CCGAACAAGC	TTATTTTGTA
480	GAGCTTCTTG	ACATCTGGAT	AAAGATTTCT	AGGCTGCTGT	CGTTCATCCA	TTCGTTCAAA
540	TTGATGCGCC	AATTTGATAT	AAGGCAGACA	GAGCAGATAC	ACACCCTCTG	AAGGGCTTTT
600	ACATTGGGTC	CCTGTTGCCA	TGCTGAGCCA	CAGCCAAGAT	AGAGAATCAA	ACGTTTTTTA
660	ATTCAACTGG	TTCACCAAGT	CTCAGGCAAT	GGTCAATGTC	ATTTGACGTT	ТАСТАСАААА
720	CTGGAACCAA	ACTTTAGCAG	GATGTGGCCA	GGTACATACC	TCTTCATCAC	TTGAAGTGTT
780	TGGCCAATTT	ATTGGGACGA	TGCACGCAAG	TCCCGATACC	CCATCAACCA	GTTCAAGAGA
840	CCACATCTTC	GTTTCGATTT	TGTAATTGGT	GAACTGTTTT	AATTGTTTTT	CTTACCTGCC
900	CTACTAGCTC	GCAATCTCAT	CATCAACATT	CTTCATACCC	TCACGAAGTA	TAGTGGAAGA
960	GTTGAATCAG	GACAATTTGT	ACGCAAGATT	TATCTGTACG	TTTGTAGAAG	ACGAAAAGCT
1020	ATTTATTCTT	CCTTCTTTCA	TTTTGGAATT	TTTTTCCCAT	ATAACTTCAA	TGGGTGATTA
1080	GATAATTTTT	ATTTATTTT	TTTCTAAACC	TTTAAAAATC	CAAAAAACGG	CTTATTATAC
1140	TGGGTCAATT	AAGTGGTAAA	GTACTGTCTC	AGAGCTGTCT	AGCCTCTTTA	ACATTAGATC
1200	TGGTTGATAT	CATTCGGTAC	CGTAGTCGTC	AGGTATTGGG	TTCTTGATAA	CTGTCCCTTT
1260	CAAGGAAAAT	ACAGTTGAGA	ATTGTTTTGT	ACCTGAAGCA	CTTGCAGCCG	AAACCACGCG
1320	AGGATAGCAT	AGCACCTTGA	CACCACGCTC	CCTTTGGGAA	GGCTGTAAAG	GGGTTACATA
1380	TCGTGATCAA	GACCAAACAT	GGCCTTCAAT	CGAACGCAGT	GTGAAGGGTG	TGACCTCAGC
1440	TTATTATCTT	GGAAATAACC	TGTAACCAGT	ACCGAACCAT	AGTCCCTGAC	TACAATGCTC
1500	ATTAGTAGAG	ACGATTCGCA	TACAAGTGGA	TTAGCACGTT	CGCGCCCACT	TTACCAGAAT
1560	TTTCTCCTTT	AGTCATCTCT	GTCTTTTTTC	TCCCAGGCCA	AAAATACTCA	CTTGGGCTGC
1620	GGTACCTTCA	CTTTTCAGCT	AATCTGCAAT	GGTAAACCTA	TTTAAAAAAT	TTCTCTATTT
1680	AAGGAATGAA	TGAGCTCCAG	AGACGATGGC	AGAAGGACAG	GATCCATTTT	TGCCATCCTT
1740	TGCATGGCTT	TAGAAATTCC	GGTATTTTTC	GATTTCCCAT	GACACCTTTT	GATAAGAGCT
1800	GCTTCCTTTC	AATTACTCTA	AGGCCAATTG	TGGTAATCCA	TTTTTCCAGA	GGACAAAGAT
1860	TCGTAATGAT	TGTCTTTAAA	AATAAAGGTC	ACCCAAACCA	GAAAAGGTGA	TGGCCTCCCG
1920	ATTTCCTCTT	GCTCTCTAAA	GTTTAAAGAC	TGGACAGTTC	CATAATATTG	GCAGCTGTTC
1980	ACCAATTCAG	TGCACGTTTG	GCGAAACACC	AAGGCCGCAC	ATTGCGATAA	TGGAGTCATA
2040	GTTTCAATGG	CAAGAGGGCT	CCAAGAGTTG	TCCTTTTTT	CTTGGTCAGT	AAATACTAAT

1341

CAGAGATTCT ACGTTCAGAC ATAACATTT CTTTCTACTT GTCACAACAG ACGGATGATG CTTTTGTTTC (2) INFORMATION FOR SEQ ID NO: 313: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 539 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 313: ATCTGCACGA ATCAGGGCTT TCTAAGTGAC TATTTCCACC GAAATATTAT TTATATCAGG AGGACATTCA TATGTCACGT TATACAGGAC CATCTTGGAA ACAGCTCGT CGTCTTGGCC TTTCACTTAC AGGTACAGGT AAAGAATTGG CACGTCGTAA CTACGTACCA GGACAACACG GACCAAACAA CCGTTCTAAA TTGTCAGAAT ACGGTTTGCA ATTGGCTGAA AAACAAAAAC TTCGTTTCAC TTACGGTGTA GGTGAAAAC AATTCCGTAA CTTGTTCGTA CAAGCTACAA AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA ACGTTGTTTA CCGTCTTGGT CTCGCGACTA CTCGTCGTCA AGCTCGTCAA TTCGTAAACC ACGGTCACAT CCTTGTTGAC GGGAAACACG TTGATATCCC ATCATTCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAAFATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT GCGGTTTTGC TCCTTCTTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA 180 CAGGAACCTGG ACCTGGTCTT GATCCACTTT CTTCCCCTGG AGAAGAAGGT ACATCTTGAC 240 CAGGAACCACG ACCTGGTCTT GATCCACTTT CTTCCCCTGG AGAAGAAGGT ACATCTTGAC 240 CAGGAACCACG ACCTGGTCTT GATCCACTTT CTTCCCCTGG AGAAGAAGGT ACATCTTGAC 240 CAGGAACCACG ACCTGGTCTT GATCCACTTT CTTCCCCTGG AGAAGAAGGT ACATCTTGAC 240		
CTTTTGTTTC (2) INFORMATION FOR SEQ ID NO: 313: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 539 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 313: ATCTGCACGA ATCAGGGCTT TCTAAGTGAC TATTTCCACC GAAATATTAT TTATATCAGG AGGACATTCA TATGTCACGT TATACAGGAC CATCTTGGAA ACAAGCTCGT CGTCTTGGCC TTTCACTTAC AGGTACAGGT AAAGAATTGG CACGTCGTAA CTACGTACCA GGACAACAG GACCAAACAA CCGTTCTAAA TTGTCAGAAT ACGGTTTGCA ATTGGCTGAA AAACAAAAAC TTCGTTTCAC TTACGGTGTA GGTGAAAAAC AATTCCGTAA CTTGTTCGTA CAAGCTACAA AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA ACGGTTGTTTA CCGTCTTGGT CTCGCGACTA CTCGTCGTCA AGCTCCAG TACGTCCAG ACGGTCACAT CCTTGTTGAC GGGAAACGC TTGATATCCC ATCATTCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAAAATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT GCGGTAGGGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA CAGGAACAGG TACCCTTGTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC CAGGAACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGGT ACATCTTGAC CAGGAACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGGT ACATCTTGAC CAGGAACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC CAGGAACCTGG ACCTGGTCTT	CTTCTCTGGT TAATAAATTG GATTCTTGGT TTGATTTTCT GAGATTTTCA AGAGACTTTT	2100
(2) INFORMATION FOR SEQ ID NO: 313: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 539 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 313: ATCTGCACGA ATCAGGGCTT TCTAAGTGAC TATTTCCACC GAAATATTAT TTATATCAGG AGGACATTCA TATGTCACGT TATACAGGAC CATCTTGGAA ACAAGCTCGT CGTCTTGGCC 120 TTTCACTTAC AGGTACAGGT AAAGAATTGG CACGTCGTAA CTACGTACCA GGACAACACG GACCAAACAA CCGTTCTAAA TTGTCAGAAT ACGGTTTGCA ATTGGCTGAA AAACAAAAAC TTCGTTTCAC TTACGGTGTA GGTGAAAAAC AATTCCGTAA CTTGTTCGTA CAAGCTACAA AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA ACGGTCACAT CCTTGTTG CTCGCGGACTA CTCGTCGTCA AGCTCCACG 480 GTCAAGTGAT CTCAGTTCGT GAAAAATCAT TGAAAGTTCC ATCATTCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAAAATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCACTTT CTTCCCCTGG AGAAGAAGGT ACATCTTGAC 240	CAGAGATTCT ACGTTCAGAC ATAACATTTT CTTTCTACTT GTCACAACAG ACGGATGATG	2160
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 539 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 313: ATCTGCACGA ATCAGGGCTT TCTAAGTGAC TATTTCCACC GAAATATTAT TTATATCAGG AGGACATTCA TATGTCACGT TATACAGGAC CATCTTGGAA ACAAGCTCGT CGTCTTGGCC TTTCACTTAC AGGTACAGGT AAAGAATTGG CACGTCGTAA CTACGTACCA GGACAACACG GACCAAACAA CCGTTCTAAA TTGTCAGAAT ACGGTTTGCA ATTGGCTGAA AAACAAAAAC TTCGTTTCAC TTACGGTGTA GGTGAAAAAC AATTCCGTAA CTTGTTCGTA CAAGCTACAA AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA ACGGTCACAT CCTTGTTGAC GGGAAACGCG TTGATATCCC ATCATTCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAAAATCAAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTTA CGGCTACGAC GTGATGTAT CTCGATGATA TCCACTGTTT 600 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTGTAT 1200 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA 1800 CAGGACCTGG ACCTGGTCTT GATCACTTT CTTCCCCTGG AGAAGAAGGT ACATCTTGAC 2400 CAGGACCCTGG ACCTGGTCTT GATCACTTT CTTCCCCTGG AGAAGAAGGT ACATCTTGAC 2400 CAGGACCCTGG ACCTGGTCTT GATCACTTT CTTCCCCTGG AGAAGAAGGT ACATCTTGAC 2400 CAGGACCCTGG ACCTGGTCTT GATCACCTTT CTTCCCCTGG AGAAGAAGGT ACATCTTGAC 2400 CAGGACCCTGG ACCTGGTCTT GATCACCTTT CTTCCCCTGG AGAAGAAGGT ACATCTTGAC 2400	CTTTTGTTTC	2170
(A) LENGTH: 539 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 313: ATCTGCACGA ATCAGGGCTT TCTAAGTGAC TATTTCCACC GAAATATTAT TTATATCAGG AGGACATTCA TATGCACGT TATACAGGAC CATCTTGGAA ACAAGCTCGT CGTCTTGGCC 120 TTTCACCTTAC AGGTACAGGT AAAGAATTGG CACGTCGTAA CTACGTACCA GGACAACAGG GACCAAACAA CCGTTCTAAA TTGTCAGAAT ACGGTTTGCA ATTGGCTGAA AAACAAAAAC 240 TTCGTTTCAC TTACGGTGTA GGTGAAAAC AATTCCGTAA CTTGTTCGTA CAAGCTACAA AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA ACGGTTGTTTA CCGTCTTGGT CTCGCGACTA CTCGTCGTCA AGCTCGTCAA TTCGTAAACC 420 ACGGTCACAT CCTTGTTGAC GGGAAACACG TTGATATCCC ATCATTCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAATATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA 180 CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCCCTGG AGAAGAAGGT ACATCTTGAC 240	(2) INFORMATION FOR SEQ ID NO: 313:	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 313: ATCTGCACGA ATCAGGGCTT TCTAAGTGAC TATTTCCACC GAAATATTAT TTATATCAGG AGGACATTCA TATGTCACGT TATACAGGAC CATCTTGGAA ACAAGCTCGT CGTCTTGGCC 120 TTTCACTTAC AGGTACAGGT AAAGAATTGG CACGTCGTAA CTACGTACCA GGACAACACG GACCAAACAA CCGTTCTAAA TTGTCAGAAT ACGGTTTGCA ATTGGCTGAA AAACAAAAAC 240 TTCGTTTCAC TTACGGTGTA GGTGAAAAAC AATTCCGTAA CTTGTTCGTA CAAGCTACAA AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA ACGGTTGTTTA CCGTCTTGGT CTCGCGACTA CTCGTCGTCA AGCTCGTCAA TTCGTAAACC 420 ACGGTCACAT CCTTGTTGAC GGGAAACGCG TTGATATCCC ATCATTCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAATATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA 539 (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTCTCTA CGGCTACGAC GTGATGTAT TCTGATGATA TCCACTGTTT 600 CTGTAGCAGG CGTAGGTGTT TCTGGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA 180 CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 313: ATCTGCACGA ATCAGGGCTT TCTAAGTGAC TATTTCCACC GAAATATTAT TTATATCAGG 60 AGGACATTCA TATGTCACGT TATACAGGAC CATCTTGGAA ACAAGCTCGT CGTCTTGGCC 120 TTTCACTTAC AGGTACAGGT AAAGAATTGG CACGTCGTAA CTACGTACCA GGACAACACG 180 GACCAAACAA CCGTTCTAAA TTGTCAGAAT ACGGTTTGCA ATTGGCTGAA AAACAAAAAC 240 TTCGTTTCAC TTACGGTGTA GGTGAAAAAC AATTCCGTAA CTTGTTCGTA CAAGCTACAA 300 AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA 360 ACGGTTGTTTA CCGTCTTGGT CTCGCGGACTA CTCGTCGTCA AGCTCGTCAA TTCGTAAACC 420 GCGAAGTGAT CCTTGTTGAC GGGAAACGCG TTGATATCCC ATCATTCCGC GTAACTCCAG 480 GTCAAGTGAT CTCAGTTCGT GAAATATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA 539 (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS:	(B) TYPE: nucleic acid	
ATCTGCACGA ATCAGGGCTT TCTAAGTGAC TATTTCCACC GAAATATTAT TTATATCAGG AGGACATTCA TATGTCACGT TATACAGGAC CATCTTGGAA ACAAGCTCGT CGTCTTGGCC 120 TTTCACTTAC AGGTACAGGT AAAGAATTGG CACGTCGTAA CTACGTACCA GGACAACACG GACCAAACAA CCGTTCTAAA TTGTCAGAAT ACGGTTTGCA ATTGGCTGAA AAACAAAAAC 240 TTCGTTTCAC TTACGGTGTA GGTGAAAAAC AATTCCGTAA CTTGTTCGTA CAAGCTACAA AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA ACGTTGTTTA CCGTCTTGGT CTCGCGACTA CTCGTCGTCA AGCTCCTAA TTCGTAAACC 420 ACGGTCACAT CCTTGTTGAC GGGAAACGCG TTGATATCCC ATCATrCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAARATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240 CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC		
ATCTGCACGA ATCAGGGCTT TCTAAGTGAC TATTTCCACC GAAATATTAT TTATATCAGG AGGACATTCA TATGTCACGT TATACAGGAC CATCTTGGAA ACAAGCTCGT CGTCTTGGCC 120 TTTCACTTAC AGGTACAGGT AAAGAATTGG CACGTCGTAA CTACGTACCA GGACAACACG GACCAAACAA CCGTTCTAAA TTGTCAGAAT ACGGTTTGCA ATTGGCTGAA AAACAAAAAC 240 TTCGTTTCAC TTACGGTGTA GGTGAAAAAC AATTCCGTAA CTTGTTCGTA CAAGCTACAA AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA ACGTTGTTTA CCGTCTTGGT CTCGCGACTA CTCGTCGTCA AGCTCCTAA TTCGTAAACC 420 ACGGTCACAT CCTTGTTGAC GGGAAACGCG TTGATATCCC ATCATrCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAARATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240 CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC		
AGGACATTCA TATGTCACGT TATACAGGAC CATCTTGGAA ACAAGCTCGT CGTCTTGGCC TTTCACTTAC AGGTACAGGT AAAGAATTGG CACGTCGTAA CTACGTACCA GGACAACACG GACCAAACAA CCGTTCTAAA TTGTCAGAAT ACGGTTTGCA ATTGGCTGAA AAACAAAAAC TTCGTTTCAC TTACGGTGTA GGTGAAAAAC AATTCCGTAA CTTGTTCGTA CAAGCTACAA AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA ACGGTCACAT CCTTGTTGAC GGGAAACGCG TTGATATCCC ATCATCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAAATACAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240 CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 313:	
TTTCACTTAC AGGTACAGGT AAAGAATTGG CACGTCGTAA CTACGTACCA GGACAACACG GACCAAACAA CCGTTCTAAA TTGTCAGAAT ACGGTTTGCA ATTGGCTGAA AAACAAAAAC TTCGTTTCAC TTACGGTGTA GGTGAAAAAC AATTCCGTAA CTTGTTCGTA CAAGCTACAA AAATCAAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA ACGTTGTTTA CCGTCTTGGT CTCGCGACTA CTCGTCGTCA AGCTCCAA TTCGTAAACC ACGGTCACAT CCTTGTTGAC GGGAAACGCG TTGATATCCC ATCATTCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAATATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC	ATCTGCACGA ATCAGGGCTT TCTAAGTGAC TATTTCCACC GAAATATTAT TTATATCAGG	60
GACCAAACAA CCGTTCTAAA TTGTCAGAAT ACGGTTTGCA ATTGGCTGAA AAACAAAAAC TTCGTTTCAC TTACGGTGTA GGTGAAAAAC AATTCCGTAA CTTGTTCGTA CAAGCTACAA AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA ACGTTGTTTA CCGTCTTGGT CTCGCGACTA CTCGTCGTCA AGCTCGTCAA TTCGTAAACC ACGGTCACAT CCTTGTTGAC GGGAAACGCG TTGATATCCC ATCATrCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAARATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC	AGGACATTCA TATGTCACGT TATACAGGAC CATCTTGGAA ACAAGCTCGT CGTCTTGGCC	120
AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA ACGTTGTTTA CCGTCTTGGT CTCGCGACTA CTCGTCGTCA AGCTCGTCAA TTCGTAAACC ACGGTCACAT CCTTGTTGAC GGGAAACGCG TTGATATCCC ATCATCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAACATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC	TTTCACTTAC AGGTACAGGT AAAGAATTGG CACGTCGTAA CTACGTACCA GGACAACACG	180
AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA ACGTTGTTTA CCGTCTTGGT CTCGCGACTA CTCGTCGTCA AGCTCGTCAA TTCGTAAACC ACGGTCACAT CCTTGTTGAC GGGAAACGCG TTGATATCCC ATCATCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAACATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC	GACCAAACAA CCGTTCTAAA TTGTCAGAAT ACGGTTTGCA ATTGGCTGAA AAACAAAAAC	240
ACGTTGTTTA CCGTCTTGGT CTCGCGACTA CTCGTCGTCA AGCTCGTCAA TTCGTAAACC ACGGTCACAT CCTTGTTGAC GGGAAACGCG TTGATATCCC ATCATrCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAARATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC	TTCGTTTCAC TTACGGTGTA GGTGAAAAAC AATTCCGTAA CTTGTTCGTA CAAGCTACAA	300
ACGGTCACAT CCTTGTTGAC GGGAAACGCG TTGATATCCC ATCATrCCGC GTAACTCCAG GTCAAGTGAT CTCAGTTCGT GAAARATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240	AAATCAAAGG CGGAATCCTA GGTTTCAACT TTATGCTTCT TTTGGAACGT CGTTTGGATA	360
GTCAAGTGAT CTCAGTTCGT GAAARATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA (2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS:	ACGTTGTTTA CCGTCTTGGT CTCGCGACTA CTCGTCGTCA AGCTCGTCAA TTCGTAAACC	420
(2) INFORMATION FOR SEQ ID NO: 314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA 180 CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240	ACGGTCACAT CCTTGTTGAC GGGAAACGCG TTGATATCCC ATCATrCCGC GTAACTCCAG	480
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240	GTCAAGTGAT CTCAGTTCGT GAAArATCAT TGAAAGTTCC AGCAATCCTT GAAGCAGTA	539
(A) LENGTH: 667 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA 180 CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240	(2) INFORMATION FOR SEQ ID NO: 314:	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA 180 CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240		
(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 314: CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT 60 CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT 120 AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA 180 CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240	(B) TYPE: nucleic acid	
CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240		
CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240		
CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314:	
AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240	CCGGTTTTGC TCCTTCTCTA CGGCTACGAC GTGATGTATC TCTGATGATA TCCACTGTTT	60
CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240	CTGTAGCAGG CGTAGGTGTT TCTGGACCTG CTTGTTCTGC TTTTTTCTCT GCCGTCGTAT	120
CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC 240	AGGAAACAGC TACCCTTGTT GGGGTTTCAT TGTATTCTCT TTCAAGTTTC TTAGGTCTAA	180
	CAGGACCTGG ACCTGGTCTT GATCCACTTT CTTCCGCTGG AGAAGAAGGT ACATCTTGAC	240
		300

- CACCTTGACT	TGGGTGAGTA	GGCACGGTAG	1342 GAGCTTTTCT	САТААТСТСС	TCTACCGTTG	360	
			AAGGTTCATT			420	
CCTCATCTTC	TTTCAGAACT	TCATCATAGC	CTTTTACTTT	ттсталатст	CTCAGAATCT	480	
GCTCTTTAAA	GCGTAATTTC	TCTTCTGCTC	TTGACTTTTC	ACTCAAAAGT	TTTTCCTCCT	540	
IGTTGAGAA T	CCATAATATT	AGAGCTGAGA	AGTCCAAAAA	AAGCAATCTA	TGATACTTTT	600	
CCTAACGGAT	TTTGTCATTT	CCCAGACCAT	ATCATACCAT	GTTTCCCCTG	CAAAGGTTGA	660	
CTGGGAA						667	
2) INFORMATION FOR SEQ ID NO: 315:							

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1483 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 315:

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GGGAAGCCAA	GGTATTTTAT	CGGATGAAGT	TGTTACTAGT	TCTTCACCGA	TGGCTACAAA	60
AGAGTCTTCT	AATGCAATTA	CTAATGATTT	AGATAATTCA	CCAACTGTTA	ATCAGAATCG	120
TTCTGCTGAA	ATGATTGCCT	CTAATTCAAC	CACTAATGGT	TTAGATAATT	CGTTAAGTGT	180
TAATAGTATC	AGCTCTAATG	GTACTATTCG	TTCCAATTCA	CAATTAGACA	ACAGAACAGT	240
TGAATCTACA	GTAACATCTA	CTAATGAAAA	TAAGAGTTAT	AAGGAAGATG	TTATAAGTGA	300
CAGAATTATC	AAAAAAGAAT	TTGAAGATAC	TGCTTTAAGT	GTAAAAGATT	ATGGTGCGGT	360
AGGTGATGGG	ATTCATGATG	ATCGACAAGC	AATTCAAGAT	GCAATAGATG	CTGCAGCTCA	420
AGGGCTAGGT	GGAGGAAATG	TATATTTTCC	TGAAGGAACT	TATTTAGTAA	AAGAAATTGT	480
TTTTTTAAAA	AGTCATACAC	ACTTAGAATT	GAATGAGAAA	GCTACAATTC	TAAATGGTAT	540
Aaatattaag	AATCACCCTT	CCATTGTTTT	TATGACAGGT	TTATTTACGG	ATGATGGTGC	600
GCAAGTAGAA	TGGGGCCCAA	CAGAAGATAT	TAGTTATTCT	GGTGGTACGA	TTGATATGAA	660
CGGTGCTTTG	AATGAAGAAG	GAACTAAAGC	AAAAAATCTA	CCACTTATAA	ATTCTTCAGG	720
TGCATTTGCT	ATTGGGAATT	CAAATAACGT	AACTATAAAA	AATGTAACAT	TCAAGGATAG	780
TTATCAAGGG	CATGCTATTC	AAATTGCAGG	TTCGAAAAAT	GTATTAGTTG	ATAATTCTCG	840
TTTTCTTGGG	CAAGCCTTAC	CCAAAACGAT	GAAGGATGGG	CAAATCATAA	GTAAGGAGAG	900
CATTCAGATT	GAACCATTAA	CTAGAAAAGG	TTTTCCTTAT	GCCTTGAATG	ATGATGGGAA	960
AAAATCTGAA	AATGTGACTA	TTCAAAATTC	CTATTTTGGC	AAAAGTGATA	AATCTGGGGA	1020

PCT/US97/19588 WO 98/18931

1343

ATTAGTAACA	GCAATTGGCA	CACACTATCA	AACATTGTCG	ACACAGAACC	CCTCTAATAT	1080
TAAAATTCAA	AATAATCATT	TTGATAACAT	GATGTATGCA	GGTGTACGTT	TTACAGGATT	1140
CACTGATGTA	TTAATCAAAG	GAAATCGCTT	TGATAAGAAA	GTTAAAGGAG	AGAGTGTACA	1200
TTATCGAGAA	AGCGGAGCAG	CTTTAGTAAA	TGCTTATAGC	ТАТАААААСА	CTAAAGACCT	1260
ATTAGATTTA	AATAAACAGG	TGGTTATCGC	CGAAAATATA	TTTAATATTG	CCGATCCTAA	1320
AACAAAAGCG	ATACGAGTTG	CAAAAGATAG	TGCAGAaTwT	TTAGGAAAAG	TATCAGATAT	1380
TACTGTAACA	AAAAATGTAA	ТТААТААТАА	TTCTAAGGAA	ACAGAACAAC	CAAATATTGA	1440
ATTATTACGA	GTTAGTGATA	ATTTAGTAGT	CTCAGAGAAT	AGT		1483

(2) INFORMATION FOR SEQ ID NO: 316:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2453 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 316:

CCTGAACGCT	TTTTTATAAA	TATCATAAAG	CCAATCTGAT	TTATCAAGTG	TGTCTAAGCG	60
ACGCGAATTA	AAATTCATTG	CATACTCCAT	CGCTTCTAAA	AAACTCATTT	TTGAAAAGAC	120
GTTAAAATCA	тстаааттст	GACTCCAATA	ТААТААСААА	ACCAATCCCA	таататсстс	180
TGGTTGATTA	TTCAATAAAT	TTAAGTTGGT	TTCATAAAAC	CCTGGAGTTC	CAAATAGAGG	240
CAACTTTTTT	TCTTCAATTT	GAGTTTCTTT	CCTTAGGGCA	TGCTCAAAGT	СТАТААТАТА	300
AATATTATTT	CTATTATCAA	TAAGTATATT	ATTAAATGAT	AAATCTCTAT	AGGAAAGATT	360
ATATTTGGAG	TTTATTATCT	CCATATAATC	AATTAATGTT	АААААССААТ	CATACGAGCC	420
ACTAACCATA	TTATACTCGC	TTAATTTATC	TGCAATAATA	ААСТСАААТТ	ССАСААААТА	480
CGAATTCTTT	ATGTAAAAAT	CGTTAAAAAC	TTTTGGAGTA	AATTCCTCCT	TTTCCAATTC	540
TACTAATATT	TCTCTTTCAT	TTATTAAACG	ATTCACAGAA	TCTCTATTTG	TAAAATCAAC	600
CAACGATAAA	TCACTAGCTT	CTTTTAATAA	AGAATAAACT	CGCTTTTGAG	TATTAAATAC	660
TTTATAAACT	CCACCTTTGG	CATTTTTAGA	AATCACTTCC	ТАТААТАА	ATTGATCAGG	720
AATAGTGTTA	TATCTTGGAA	TATAGTAATC	CCTTATTGGA	ACATTCACAT	TTGAAGGGAT	780
TTTCTTATCT	CTTTTATCCT	TGAAAGTGCT	ATCTTTTACG	AACTCCCCAT	ATCTGTAATA	840
TACAACCTCG	CTAAGTTGAA	ATCTGAAATC	TGATGGTATG	TTTACACCCT	TTACACCTTT	900

			1344			
ATACAATATT	TCTAATTTGT	GTAACAAACG		ттаттатстт	TTGGATAAAT	960
TGTAATGAAT	TTCCCGACTT	GTGAATAACC	ATTAAGCCCT	GTATTTTGCA	AAGAAAGTTC	1020
TTTAATGCTA	ACCAAAATTT	TGAAATTTAT	CTTCTTCTCT	CTAGAAAATA	таааатсааа	1080
GAATTTTTA	GCAACCAAAT	TAGCATTTAA	TATTGAAGCG	CTCAGGTGTA	TTTTAAATCC	1140
CTTAGATTGG	GTGATATTAG	ACGGCAAATT	ATATAACCAA	TGTTCATCAC	тааааттатс	1200
ACTAATTTA	ТАТТСТААТА	ATAAATTATG	GTATGCGTCT	TCTATTTCAG	TTTCATAGTC	1260
CAAATAGTTT	AAATACTTTT	CGTAATTCAT	ATTAAGAAAT	CTTCTCCATA	AATTTTTAGA	1320
CCATCATTTA	AAGCCAAACA	ATTTAAAGCG	TGATAATAAA	TGTTGATAAT	CAATGTAACT	1380
TTCAGTCCTC	TATTTTGTAA	TTCCTTCACC	ATTTTAATAA	TGCTATATCT	ATTTTCTCGA	1440
GGCAATTTAT	AGGACTTCAA	GATAAAACCA	TAAAAGAGAT	AAGTATTATA	ATCTGACAAT	1500
CCAGTTTCAG	AATAATTTTT	TAGAAAAATA	TCTAGTGATT	CTGATAATTC	ATCCGGAATA	1560
ATTCTTTTAA	CATCGTATTT	ATTTTTCATA	TCGGCCACTC	TTCCTTAAAA	AGCTCACAAT	1620
AAAATTTTAA	ATTTCTATAC	AACAATCCGA	GAGTAGTCTC	ACAATTTGAA	CATTTCACAT	1680
CACTCTTAAT	АТАТААААА	TGAATTAATC	AGAAACCTCT	GACTAAGATT	TCCTAATTAA	1740
TTCACTTTCT	ATATCATAGT	AAGGAATTCT	ATTATCCCTA	ATTGAAAATT	GAAATTTTAT	1800
GTTTTATATA	TTAACAATTA	TGCGGATTGT	AAATCTTGTC	TAACAAAATG	GCAAGTGCTA	1860
CTATGTGCCC	CAGAAGGCGA	TGCAACGCTA	TTTTGAATTG	AAAGAGCATA	ATCATCCATA	1920
TCATTTAAGT	CACGGATTAG	CAATGCTTCC	TTCTCTCTTC	CGACAATTCC	AAATTTTCTA	1980
ATTACCTTTT	CAGGATTATC	AAAAAATTCT	CCAACAACTT	CCATATTTCC	TTGAAGTTCA	2040
TTCAAGAAAG	CTTTCATTTG	ACTACTCATT	ATATAGCTCC	TTTTCTATTA	CTTTATTTGG	2100
AATCAAAACT	TACTTGTACA	TTGGAAACAC	CTCTATTCTA	CGCTTTCATA	TTGCTGCATG	2160
ACACTTTCAA	AATCAAATTG	СТАААААТАА	TTTTTTAAAG	CTTAATTTAG	ATTTAATTAC	2220
АТАТАТСТСА	AAAAATTGTT	TTGAAATTAG	ТАААТТАААА	TAGGTTTCTG	TACTTATAGG	2280
AACTAGTTAT	AAAAACTTCG	CCCATCATAA	AATATCTATT	TAAGTAAAAC	AAAAATTTTA	2340
raattttttg	ATTTTTAAGT	GACTATAATC	TCCTATCTAT	AAATACCATT	CGCAGGACCT	2400
GGATCAATCC	CTCTAGCCAT	CTTATGAACT	TGAGTTCCTC	CAGACAGTCC	CGG	2453

(2) INFORMATION FOR SEQ ID NO: 317:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 1049 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

1345

(xi) SE(QUENCE DES	CRIPTION: S	SEQ ID NO: 3	317:		
CCAATTTGAA GO	GCTCTAAAA	CAATGGAAAA	GTGCTACACA	GATGTGACAG	AATTTGCCAT	60
TCCAGCAGTA C	rcaaaaact	TTACTTATCA	CCAGTTTTAG	ATGGCTTTAA	CAGCGAAATT	120
ATTGCTTTTA AT	PCTTTCTT G	TTCGCCTAAT	TTAGAATAAG	TACAAACAAT	GTTGGAACAG	180
GCATTCAAAG AG	GAAGCACTA	TGAGAATACG	ATTCTCCATA	GTGACCAAGG	CTGGCAATAC	. 240
CAACACGATT C	PTATCATCG	GTTCCTAGAG	AGTAAGGGAA	TTCAAGCATC	CATGTCACGC	300
AAGGGCAACA G	CCCAGACAA	CGGCATGATG	GAATCTTTCT	TTGGCATTTT	GAAATCGGAG	360
ATGTTTTATG G	PTATGAGAA	GAACTTTAGA	TCTTTAGAAA	ACCTTGAACA	AGCTATTGTG	420
GACTACATTG AT	PTATTACAA	CAACAAGAGA	ATTAAGGTAA	AGCTAAAAGG	ACTTAGCCCT	480
GTGCAATACA G	AACTAAATC	CTTCGGATAA	ATTAATTGTC	TAACTTTTGG	GGTGCAGTAC	540
ATTTTTGGTA TA	TAAAAT	TTGTAGGAGC	TATATCTACA	ATTTTATATT	CCCAGTTTAT	600
GGATGTAACT T	ACTATATTC	ACAATGTTAT	CCAGTGTTTT	ТТСТСТААТА	TTTAAGGAGT	660
GTTCTGTTTC TO	CGAATAAAT	TCTTCAAAGT	TTAACCCGTC	AACTTGTTCC	TGAACAAGAA	720
AATAATCATC C	ACGATATAA .	AATTCATCAG	TTAAATTAGT	AGTATAACTT	TTATCGGCTA	780
ATTTTTTTAG C	ATGTGAGCT	TCATTTTTA	TATCATCAAG	AGCTGTCCAT	TCTCCTTCAG	840
CATCATAATT C	ACAAAAGGT	CTTGACTGCT	TGATGATTAC	TTTTTGCCCG	TCCGATTTTC	900
TAATTGCCCG AT	PAAACATTT	CCTTTATTTG	ATCTCTTAAT	AATTTTTTCC	ATTTTGTATT	960
TATTTATTGC AC	GAGTCCTTA	CTTGAAACTT	CACATGTGGT	TTGAAAATAA	ATCCTTTTTT	1020
CTTCTTCTGA A	AATAAATCC	ATTTTCCGG				1049
(2) INFORMATI	ION FOR SE	O ID NO: 31	8:			

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 776 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 318:

TTAGTTGGTT	AGAATCAGAA	AATCGCCGAA	GTGGTTATTT	ATTTTTGAAT	AAATTTAACG	60
AACCAATTAC	AGCAAGAGGA	GTTGCTCAAC	AGTTAAAAA	TTATGCTGAT	AAATACAAAA	120
TGAATCCTAA	AGTAATTTAC	CCTCATTCTT	TTAGGCATTT	ATTTGCTAAG	AATTTTTTAG	180

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1346	
CGAAGTATAA TGATATTGCC TTGCTTGCAG ATTTGATGGG ACACGAAAGT ATAG	AAACTA 240
CTCGAATTTA TCTAAGGAAA ACAGCTACTG AACAACAAAA TATTGTAGAT AAAA	TTGTTA 300
ATTGGTAAAA AATAACAGGT GGTCAAACTG ACTACCTGCT ATTTTTGTGA TTAT	GGCTCT 360
TATTATGGGA ATATACCTAT GAATTGGGTT GTTATAAAAA TAAAAGATAT TTTT	TCAATA 420
AATACAGGTC TTTCTTACAA GAAGGGCGAT TTAAGCATTA ATAATAAAGG TGTT	AGAATT 480
ATACGTGGTG GTAATATTAA GCCTTTAGAA TTTTCTCTGT TGGATAATGA TTAC	TACATT 540
GATACACAAT TCATCTCCTC TGAGCAAGTT TATTTAAAAC ATAATCAGCT AATA	ACACCT 600
GTATCAACCT CTTTAGAACA TATTGGAAAG TTTGCAAGAA TCGAGAAAGA CTAT	GATGGT 660
GTTGTGGCTG GTGGATGTAT TTTCCAATTA ACACCATTCG AAAGTGCAGA GATG	ATGTCA 720
AAATGTCTAT TATGTAACTT GTCCTCTCCG TTATTTTATA AACAATTGAA AGCA	AT 776
(2) INFORMATION FOR SEQ ID NO: 319:	·
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 658 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 319:	
TGCAATGCGG CGGCTGCATA CGCTTGATCC GGCTACCTGC CCATTCGACC ACCA	AGCGAA 60
ACATCGCATC GAGCGAGCAC GTACTCGGAT GGAAGCCGGT CTTGTCGATC AGGA	TGATCT 120
GGACGAAGAG CATCAGGGGC TCGCGCCACC GAACTGTTCG CCAGGCTCAA GGCG	CGCATG 180
CCCGACGGCG AGGATCTCGT CGTGACCCAT GGCGATGCCT GCTTGCCGAA TATC	ATGGTG 240
GAAAATGGCC GCTTTTCTGG ATTCATCGAC TGTGGCCGGC TGGGTGTGGC GGACG	CGCTAT 300
CAGGACATAG CGTTGGCTAC CCGTGATATT GCTGAAGAGC TTGGCGGCGA ATGG	GCTGAC 360
CGCTTCCTCG TGCTTTACGG TATCGCCGCT CCCGATTCGC AGCGCATCGC CTTC	TATCGC 420
CTTCTTGACG AGTTCTTCTG AGCGGGACTC TGGGGTTCGA TGTCGACAGC CCGC	CTAATG 480

- (2) INFORMATION FOR SEQ ID NO: 320:
 - (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 1475 base pairs(B) TYPE: nucleic acid

AGCGGGCTTT TTTTTCCTGA GGCTGGACGA CCTCGCGGAG TTCTACCGGC AGTGCAAATC

CGTCGGCATC CAGGAAACCA GCAGCGGCTA TCCGCGCATC CATGCCCCCG AACTGCAGGA

GTGGGGAGGC ACGATGGCCG CTTTGGTCCC GGATCAATTC GCGCGACCGG ATCGATCC

540

600

658

PCT/US97/19588 WO 98/18931

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 320:

CCGGCTTAAT	TTTTAGAAAA	CGTGGGCAGG	GAACCTTTGT	TCTCTCTCGT	GGCAGCTCAA	60
AAAGAAAATT	AATCGTTCCA	GAAAGAGATA	TCCGGGGACT	GACAAAAATA	TCTGAAGATG	120
CTCATTCTAC	AATTGACTCG	AGGATTATTC	ACTTCAAATT	AGAATTTGCA	AATGAATTTT	180
TAGCAGAAAA	ACTACAGGTC	GCTTTGCAGA	GTCCAGTTTA	TAATATTTAC	CGCCTGCGTA	240
TTATTGACGG	TAAACCTTAT	GTTCTGGAAC	AAACTTATAT	GAGTACCGAT	GTTATTCCAG	300
GTATTACTGA	AGATATTTTA	CAAAAATCGA	TTTACAATTA	CATTGAAGGA	AAGTTAGGAT	360
TGCATATTGC	CAGTGCTACA	AAAATCTTAC	GAGCTTCTTC	TAGTTCAGAA	AATGAGCAAC	420
ATTACTTGCA	GCTCCTTCCA	ACGGAACCGG	TATTTGAAGT	AGAACAAGTG	GCTTATTTGG	480
ATAACGGAAC	TCCGTTTGAG	TACTCGATTA	GTCGTCATCG	CTATGATTTA	TTTGAATTTA	540
ATTCTTTTGC	ATTACGACAT	TCCTCCTAGG	AGAAAATGTG	AAAATGAAGC	CAATCTTTTA	600
CAGACTCTAG	TTTAAGAAAA	ATTTAAAACA	GGGCAAGAAG	GTCCCATCTA	TGCTTAAATG	660
GTTTCTCTTT	TCTAAATAAG	ATGGCTTTAA	AAGAGTGATC	GTTGTATCCA	TCATGTTGAA	720
AAATATCTTC	GTATAGCTTA	TAGAGTAGGT	ACTGAAATTG	TTCACCTGAT	CTACTTCTTA	780
TAGTTATTTA	GTTTTAAATA	GTGTTTCAAA	CATTCTTACA	CTGACGAGAA	GTTTTTGAGT	840
CTTTTCTTGT	AACACATATA	GTATACTGTG	GTTAGAATAG	TAGACTGTGA	CTTCTAACAA	900
ATTGCTAGAA	ATGAATTTCA	ATCTCCCAAT	TTATTTGTTC	ATATCTTCTT	TTAATATATT	960
AAATAAATTC	TAAATCATAA	ТСАТТТАААА	AAATTTTATT	TTTTATTTT	CATTACGAAT	1020
AATATAGATG	AAGGGGAAAG	AGTATGAAAA	CAGAACTGTT	TCTTTTGCTA	TTAGTTCAAA	1080
AGGAGAAAAA	ATGAAAGTAG	AAAATATTTC	GTATAGGGTG	GATCATCGTA	AATTGTTTGA	1140
TAATATTTCT	TTTGATACTT	CGAGTTCAGA	CGTGACATTA	ATTACTGGTA	AAAATGGTAC	1200
AGGAÄAGTCA	ACTTTACTAT	AGTAGATTGA	AACTAGAATA	GTACACATCT	ACTTCTAAAA	1260
TATTGTTAGA	AATCGATTTG	ACTATCCTGA	TCTATTTGTC	CTGTTCTTAT	TTCATTTCAC	1320
TATATCTCAA	ATTGAGTATG	ACGAAGTGCG	CTCCCATGTC	CTGGGAACGC	ACTTTCTTCA	1380
TATTTTTCAT	ATTCTTGAAT	CCATCGATAA	AGACTATTGG	GATGAATTTT	TAAĄGTTGAA	1440
CTAATCATTT	TTACAGGATG	AGATTTACAG	CAGAG			1475

⁽²⁾ INFORMATION FOR SEQ ID NO: 321:

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1	3	4
1	3	4

		1348
(i)	SEQU	ENCE CHARACTERISTICS:
	(A)	LENGTH: 560 base pairs
	(B)	TYPE: nucleic acid
	(C)	STRANDEDNESS: double
	(D)	TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 321:

GAAATATATA	TACTTCATCT	TAATAGTGAG	CAAGCTAAAC	TTAGCATTTC	ATGCCCTCAT	60
ATGGGATGTT	CTTTGACTAA	ATAATATGAT	TATCGAGATA	TATCTGGATA	AATGAACTAA	120
TAAGTCTGAC	GCGTAGACTT	ATCAAAGTCA	TTGGCATACA	CCACTATGAA	CTCGTTGGTC	180
TGTŢCAAATC	CCAACACATT	ACCTGAGAAG	AAAGTTGCAA	TGTTGTTTTT	GGTGCGGGTT	240
TGAATTTAAA	AAATTTGTTA	TGTAGTACCT	AATCTAAGGA	ATTAGAACAA	TGCCTCTAAT	300
TTTTCTTTAA	TACACTGAAA	CATTGATGAT	TCTGGCTGTA	TTTTTGAAAC	AGCTCTTCTT	360
TGCTCCTGGA	AAATATCTTC	AGAAGTTATA	TTCTCTATTC	CTAACGCTAC	TTGAGTTTTT	420
TTTCTAAAAT	ATTCTTTTCC	GTTGCCATCT	TTAGAAAAAT	CATAACCTTC	CCTATCTACG	480
CTGTTACACA	AATTAGCTAA	AAAArACTCT	GGGGTTGGGA	AAGGAAGATA	AGAAaCGTAT	540
TTAGCCCATA	ATCTATAAAG		•			560

(2) INFORMATION FOR SEQ ID NO: 322:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 643 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 322:

CCGCCCGGCC	ACCGCTGCCT	ATCCTCGGGA	GAGGGTCACC	TGGAGTGAAC	CTAGAACGAT	60
AGACACGGTG	CGGTACGACC	TCGTACTACT	TTCGCCGACG	GCCTCGTCCG	TTGTCATCCA	120
CGAACTGATC	GGACATGGGT	GCGAACACTT	CAGAGAAAAA	ATCGTTGGAC	TGCGTGTCGG	180
GCCTGAGGAA	CTACGGGTGG	TGGCTTTTCC	GAAGAACGGC	TCCGGGTTTG	ATGACGAGGG	240
TACACCCTCC	GAAGAGATTG	TACTTGTGGA	GAACGGCATT	GTGAGGCACG	CTGTCAGGGA	300
TCGGGCGACT	GGAGGAATGG	CGCCTTTTTC	CGGTTTGACC	AAAGTGGCAT	CACATGGTGT	360
CAAACCTGGC	TCAAGATGTA	CGCATCTCAA	GGCGGAAGGG	GAATCGTCAC	AGGAAGGAGT	420
TACCGGAGTA	CCCGCCGAAC	GCACCGTTTG	GATAGAGCAT	TTTTCTGCAG	CGAACTACCA	480
TTCAGGTCGA	GCCTTTTTCA	GGTCTGGCCT	TGCCTGGGTA	GGCAGCCGAG	AAGAACTCTT	540

1349	
ATATCCCTTA ATGCCTTTCA CCATGTCAAT TGATATCTAC GAACTGGCCA GCTTATTGTG	600
GCATTTAGAC GGTCAAACGG AACGAGCACG TAGGGTACTG TGC	643
(2) INFORMATION FOR SEQ ID NO: 323:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 780 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 323:	
GGTACCCACT CATTCTTGAT GAATTGTGAA CAGTTGCCCT TGGGTCGTTT TGCGAGTTGA	60
AGTCAAGAAG AGGAAAAAAA CAAAAAGGAG AAATACTCAT GGCAGTAATT TCAATGAAAC	120
AACTTCTTGA GGCTGGTGTA CACTTTGGTC ACCAAACTCG TCGCTGGAAT CCTAAGATGG	180
CTAAGTACAT CTTTACTGAA CGTAACGGAA TCCACGTTAT CGACTTGCAA CAAACTGTAA	240
AATACGCTGA CCAAGCATAC GACTTCATGC GTGATGCAGC AGCTAACGAT GCAGTTGTAT	300
TGTTCGTTGG TACTAAGAAA CAAGCAGCTG ATGCAGTTGC TGAAGAAGCA GTACGTTCAG	360
GTCAATACTT CATCAACCAC CGTTGGTTGG GTGGAACTCT TACAAACTGG GGAACAATCC	420
AAAAACGTAT CGCTCGTTTG AAAGAAATTA AACGTATGGA AGAAGATGGA ACTTTCGAAG	480
TTCTTCCTAA GAAAGAAGTT GCACTTCTTA ACAAACAACG TGCGCGTCTT GAAAAATTCT	540
TGGGCGGTAT CGAAGATATG CCTCGTATCC CAGATGTGAT GTACGTALTG ACCCACATAA	600
AGAGCAAATC GCTGTTAAAG AAGCTAAAAA ATTGGGAATC CCAGTTGTAG CGATGGTTGA	660
CACCAATACT GATCCAGATG ATATCGATGT AATCATCCCA GCTAACGATG ACGCTATCCG	720
TGCTGTTAAA TTGATCACAG CTAAATTGGC TGACGCTATT ATCGAAGGAC GTCAAGGTGT	780
(2) INFORMATION FOR SEQ ID NO: 324:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 624 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 324:	
CGGGAAAAAT CAGATTGTGG GTTCAGATAT CGAATTAGCC AAGGCTATCG CAACAAAACT	60
AGGTGTCGAA TTGGAACTAT CTCCCATGAG TTTTGATAAT GTACTGGCTA GTGTTCAATC	120

		1350			
AGGAAAAGCC GACCI	TTGCCA TATCAGGTGT	TTCTAAGACA	GATGAACGGA	GCAAGGTGTT	180
TGACTTTTCC ATTCC	CCTACT ATACTGCAAA	AAATAAACTC	ATTGTCAAAA	AATCTGACTT	240
GACTACTTAT CAGTO	CTGTAA ACGACTTGGC	GCAGAAAAAG	GTTGGAGCGC	AGAAAGGTTC	300
GATTCAAGAG ACGAT	rggcga aagatttgct	ACAAAATTCT	TCCCTCGTAT	CTCTGCCTAA	360
AAATGGGAAT TTAAT	CACAG ATTTAAAATC	AGGACAAGTG	GATGCCGTTA	TCTTTGAAGA	420
ACCTGTTTCC AAGGG	SATTTG TGGAAAATAA	TCCTGATTTA	GCAATCGCAG	ACCTCAATTT	480
TGAAAAAGAG CAAGA	ATGATT CCTACGCGGT	AGCCATGAAA	AAAGATAGCA	AGAAATTGAA	540
AGAGGCAGTT CGATA	AAAACC ATTCAAAAGT	TGAAGGAGTC	TGGGGAATTA	GACAAACTCA	600
TTGAGGAAGC CTTAI	PAAGCA TCCA				624
(2) INFORMATION	FOR SEQ ID NO: 3	25:			
(i) SEQUENC	CE CHARACTERISTICS	s:		•	
	ENGTH: 1237 base p				
• •	PE: nucleic acid				
	FRANDEDNESS: doub DPOLOGY: linear	те	•		
(D) IC	FOLOGI: IINEAL				

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 325:

TCTTATGAAG CCGAAGCGTG ATTTATGGCG GATAGGTTTG GTCTGCAGAA AGTGACAAAT 60 CTAGTGCCAT CAGCGTATAT GGAATCTnTG GCTGAGAAAC AGTCCCGGGG TGAACTGACT 120 TATGAGCAGG TTTATGAGGA TGCAACGGCT TATCATCATA CCATTGATGC GAGTACAGAG 180 GAGGCAGACT TGGTTTCTCT ACGTATTGTA GAACTATTGT CTCGAAGAGG CTTTAGCTTC 240 AGTCCTGCGA TCTTACTTGC TATTCATAAG GAGTTGTTTC AAGATATATT TGAACCCTCG 300 ATTCCGGTAG GTCAATTTCG TCAGACTAAT ATCACAAAGA ATGAACCTGT TTTGAATGGT 360 GAAAGTGTTG TGTACTCTGA TTACTCCATG ATTCAAATGA CCTTGGATTA TGATTTTAAT 420 CAGGAAAAAC AAGTTGCATA TGCGACACTA ACCCAGGCGG ATATGGTTAA AAAAATCCAG 480 CATTTATTT CAGGAATCTG GCAGATTCAT CCATTTCGCG AAGGAAACAC TCGGACGGTA 540 ACGGTATTTT TGATTCAGTA TCTTCGTGAG TTTGGTTTTG ATATTGATAA TACACCATTT 600 CAGCAACATT CCAAGTATTT TCGTGATGCC TTAGTGTTAG ATAATGCAAA GATTTTACAG 660 CGACGTCCTG AGTTTTTAAC AGCTTTTTTT GAAAATCTCT TGCTCGGTGG TCAAAATGAT 720 TTGTCTTCAG AAAAAATGTA TCTAGATTTA GACCTCGATC TTTCATAATC CTAATACTGA 780 GTAAACATTG AATTTTAGGA AAAAATGAAG TAAATATTCT CACAAGAAAA CGTATATCAT 840 CAAAGTTTGG CTCTTTGTCA ATTGTAGTGG GTTGAAGAAA AGCTAAGTTC GAGAAAGGGC 900

1351	
AAATTTCGGC CTTTCCTTTT TGATGTTCAG AGCGATAAAA ATCCGGTTTT TTGAAGTTTT	960
CAAAGTTTCG AAAACCAAAG GCATTGCGCT TGATAAGTTT GATGAGATTA TTGGGCGCTT	1020
CCAGTTTGGC ATTAGAATAG TGTAGTTGAA GGGCGTTGAT AACCTTTTCT TTATCTTTGA	1080
GGAAGGGTTT AAAGACAGTC TGAAAAATAG GATGAACCTG CTTAAGATTG TCCTCGATAA	1140
GTTCGAAAAA TTTCTCCGGG TCCTTATTCT GAAAGTGAAA CAGCAAGAGT TTGAAGAGCC	1200
GATAGTGATG TATCAAGTCT TGTGAATAGC TCAAAAG	1237
(2) INFORMATION FOR SEQ ID NO: 326:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 461 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 326:	
TTTGATTTTT CTGAATTAGA AGAGATTGAA TTGCCTGCAT CTCTAGAATA TATTGGAACA	60
AGTGCATTTT CTTTTAGTCA AAAATTGAAA AAGCTAACCT TTTCCTCAAG TTCAAAATTA	120
GAATTAATAT CACATGAGGC TTTTGCTAAT TTATCAAATT TAGAGAAACT AACATTACCA	180
AAATCGGTTA AAACATTAGG AAGTAATCTA TTTAGACTCA CTACTAGCTT AAAACATGTT	240
GATGTTGAAG AAGGAAATGA ATCGTTTGCC TCAGTTGATG GTGTTTTGTT TTCAAAAGAT	300
AAAACCCAAT TAATTTATTA TCCAAGTCAA AAAAATGACG AAAGTTATAA AACGCCTAAG	360
GAGACAAAAG AACTTGCATC ATATTCGTTT AATAAAAATT CTTACTTGAA AAAACTCGAA	420
TTGAATGAAG GTTTAGAAAA AATCGGTACT TTTGCATTTG C	461
(2) INFORMATION FOR SEQ ID NO: 327:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1436 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 327:	
TAACATTTAG GTACCTCTTC TTAACAAAGT TCAATAGTAA CAATTAATAT TTTAAACAAT	. 60
ATATCAAACA TCAATGACTA GAATACTTGC ATCATCCTTC TTTCCATAGA TTGGATCAAT	120
AGCAGAAGAA TTAAATCTCA TCTTAATTAA CTCTTCAAAA GTTTTATTTT GATTATTTTG	180

			1352			
ATAGAATTCA	TAAAAGCCAT	CGCTCATTAA		TCACTAGTAA	CATCTATTTG	240
ATAATAATTA	GCATGGTCTA	AAAATCTCTC	ATCCAACGAA	CCTATCCAGT	ACCCACTCGG	300
PTGATTAGAT	AATTTTCTGA	TTTTTTGTAA	AATAATTTTT	AAAATTTATT	CACTATTTGT	360
ACCAATTGAA	TCTTTTATCT	CATTTTTCCC	ТТТТТСАААТ	AAGTTATCTA	CTCTATGATC	420
AGTTATTTCC	ATTTCGTTTA	CTAACATGAC	GCAGTCACCT	AGCATCATAT	ACTCCAACTT	480
ITTTTCTGAA	AGTTTAGCAA	ATATTGGTAA	GCGATAATAT	AGTATATTGA	AACTAGAATA	540
GTACACCTCT	ACTTCTAAAA	CATTGTTAGA	AATCGATTTG	ACTGTCCTGA	TTGATTTGTC	600
CTATTATTAT	TTCATTTTAC	TATACTCTGT	TAATTTATAT	GAGTTTAAAC	CGATTTCATC	660
PTTAACCTCG	AGTAAAGCAG	TTTCAAATAT	TTGTTTAAGA	GTTTTTGATT	CTTTACAATT	720
AACCGACAAA	CTTTCTGATA	AAATATGTAC	AACTTCTGAG	ACTGAATAAC	СТАТСТССТС	780
PTTAGAATTA	TATAAATCTG	TAGCTCCACC	AATAATCCAA	AAATACTGAT	TTTGTGAACC	840
COTATAACA	TCATTTTCTA	CGGAACTTCC	TTGTATCGAA	CAAATTTTAT	TTATCTTTAC	900
CATAATACTT.	CAACCCTTTT	AGTGTCAAAA	GTAAACCAAT	TCCTGTCACT	GTTAAGAATA	960
GTTCCATAAT	CTTATTCGAA	CCAGTCTTTG	GTAATTTTTG	TTTKACATCT	ACTATYTCTT	1020
PAGATTTATT	AATATGATTT	TCAGTTTCTC	TGCCATCTCC	AACTATTTA	TAGTTTACTT	1080
CTTCTGTCTT	ATTATCTTGT	TTATTGTCGA	TCTTGTCATT	CATTTGTCTA	TTATCTTTAC	1140
AAATTDADT1	CTCTCCGTTC	TTCTGGTTAC	TATCAATTAC	ATTATTTGAA	TTAGATTGTT	1200
PTTCCTCTTT	GTTTTTTCT	TTTTCGTTTT	TATCACTTAA	ATTATTTGTT	ACAATTTTGT	1260
AAAGCCCATT	CTCCGTTACA	ATATTGAAAT	TACCATCGCT	ATCACGTATA	ACAGGTTCTT	1320
CCCATTTGC	ATTAGATTTG	ATGAATGATA	TATACTTACC	GGATAAATTA	TAAAATTGGT	1380
PATTTAAAAC	GGTTATTTTA	CCCTTTGAAT	CCTCAATAAC	AATTCCTTCT	TTACCC	1436
(2) INFORM	ATION FOR SE	EQ ID NO: 32	28:			

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 646 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 328:

CCGGCAGACA GGAGAAGGTG TTAAATATCA ATCTCAAATG GTTCGTCAAT GGTTTCTGAT 60 ACGTATTTC CGTCTTCTT CCGTTGCTTG ACACACTCTG TGAGGAGATA TTCGATTTGC 120 CCATTGACTG AACGAAAGTC GTCTTCTGCC CATGATGCGA GTGCAGCGTA TAACTTTGTT 180

1353

GAGAGTCGAA	GGGGGATCTG	CTTTTTTTA	GCTTCAGCCA	TCTTTAGTAA	AGGCTTCCTG	240
TGTTGACAAT	TGGTTGTGCA	TCATGATTGC	CACAAAGAAC	GACAAGGAGA	TTTGAAACCA	300
TGGCAGCTTT	TCGTTCTTCG	TCAAGTTCTA	CCAATTCCCC	TTCATTGAGC	CGTTCTAGTG	360
CCATTTCAAC	CATTCCTACA	GCACCATCTA	CAATCATCTT	CCGTGCATCA	ATAATGGCAG	420
ATGCTTGTTG	GCGTTGAAGC	ATAACGGCAG	CAATTTCTGG	AGCATAAGCT	AGGTAAGTGA	480
TACGTGCTTC	AAGGATTTCC	AAGCCAGCAT	CCTCAACACG	ACTTTGGATT	TCTTCACGAA	540
TACGGGTAGC	AACAATTTCG	CTAGAGCCAC	GGAGACTACC	TTCATCTGCG	TGCCCATCAC	600
CCGGAGTATC	CACATTAGGA	GACACATCGT	AAGGATAGAT	GCGGAC		646
		•				

(2) INFORMATION FOR SEQ ID NO: 329:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1653 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 329:

GTTGCAGGTG	CAGTAGGTGT	TACTTCAGAT	ACATTTGAAC	GTGCAGAGGC	TCTTTTTGAG	60
GCAGGAGCGG	ATGCGATTGT	TATTGATACT	GCACATGGTC	ATTCTGCAGG	TGTCTTGCGT	120
AAAATTGCCG	AGATTCGTGC	TCATTTCCCA	GATCGGACTT	TGATTGCTGG	AAATATTGCT	180
ACTGCTGAAG	GTGCACGTGC	CCTTTATGAA	GCGGGTGTAG	ACGTTGTTAA	GGTTGGTATT	240
GGACCAGGTT	CTATCTGTAC	TACTCGTGTG	ATTGCTGGTG	TTGGTGTTCC	GCAAGTAACA	300
GCTATCTACG	ATGCTGCAGC	TGTTGCGCGC	GAATATGGTA	AAACGATTAT	TGCTGACGGT	360
GGGATCAAGT	ATTCTGGAGA	TATTGTAAAA	GCACTTGCTG	CAGGTGGAAA	TGCTGTTATG	420
CTTGGATCTA	TGTTTGCTGG	AACTGATGAA	GCTCCAGGCG	AAACTGAAAT	CTTCCAAGGA	480
CGTAAATTCA	AGACTTACCG	TGGTATGGGA	TCAATTGCTG	CTATGAAGAA	AGGTTCAAGC	540
GACCGTTATT	TCCAAGGTTC	TGTCAATGAA	GCAAACAAGC	TTGTTCCAGA	AGGAATTGAA	600
GGTCGTGTTG	CTTATAAAGG	AGCGGCAGCT	GATATTGTTT	TCCAAATGAT	TGGTGGTATT	660
CGCTCTGGTA	TGGGTTACTG	TGGTGCAGCT	AACCTTAAAG	AACTACACGA	TAATGCTCAA	720
TTTATTGAAA	TGTCTGGTGC	TGGTTTGAAA	GAAAGCCATC	CTCATGATGT	GCAAATTACT	780
AATGAGGCAC	CAAATTATTC	TATGTAAAAA	ACAATGAAAA	GAACTCCAGT	GAAAACAGGA	840
GTTCTTTTAC	AATGTTGTCA	ATTTCCATTT	ACAGCAGCTT	TACCATCCTG	AATAGTGAAG	900

•						
		•	1354			
ATACTTAGAT	TTTCTGGCAG	ATTTTGAAGA	TGGTCTAAGC	TTGTTGTTGT	GATAAAGGTT	960
TGGATTGATT	GAGAAATCGT	TTCTAATAAT	TTTAACTGTC	TAGTGTTGTC	AAGTTCACTC	1020
ATCACATCGT	CAAGCAGTAA	TATAGGAGAT	TCTGTGGTAA	TGCTTTCCAT	TAATTCGATT	1080
TCTGCTAATT	TTATCGAGAG	GACGAGACTA	CGATGTTGAC	CTTGGCTTCC	GAAACTAGCA	1140
-	TTATATAAAA	AGAAATGTCA	TCTCGATGAG	GACCGACACC	AGTATTCTTT	1200
ТТАААТАААТ	CTCTGGATCT	ACTTTTTTCT	AAAGCAATTT	TGAAAGATTC	GGATAAGTTT	1260
TGTTTGTCAG	TTATATTGAC	AGAAGATTGA	TAGGATATTG	ACAACTCTTC	GATCTGATTA	1320
GAGAGTTCAA	AATGTTTCTT	ACGCCCAAAT	GATTCTAGTT	TTTTTATGAA	ATCTAAGCGG	1380
TGATTCATTA	CACGACATCC	ATAATCAACT	AGCTGATCAT	CTAACACAGA	AAGGAATGTT	1440
TCATCTATTT	TTTGAGCTGA	TTTTAGGTAA	GTGTTTCTTT	GCTTTAGGAT	GTGGTTATAA	1500
TTGGTTAAGT	CAGATAAATA	GATTGGCTTA	ATTTGCCCAA	GTTCCATATC	AATGAATTTT	1560
CGTCGAATCG	AAGGTGCTCC	TTTAATTAGT	TGTAAATCTT	CAGGAGCAAA	TAAGACAACA	1620
TTCATGTGTC	CTACATAATC	TGAAAGGCGT	GCC -			1653
(2) INFORM	ATION FOR SI	Q ID NO: 3	30:			
(i) S	EQUENCE CHAP	RACTERISTICS	S:			
	(A) LENGTH:	1340 base p	pairs			

- (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 330:

60	CTTCTTTTCC	TACTCCCATT	AGTTŢAAAAT	ATTTTTTGTT	ATTTCAAAGC	GAAACACTGT
120	TAATATCACT	CTATTTTTTA	ATACTAGATT	ACCATTCAAA	TATATCCAAA	AAACGTACAA
180	ACCGGAGAAA	CAGTCCCAGT	TTTTTAGTCC	CGTTTTCAGA	aattatagga	AAATCCACCT
240	AAGAACAAGT	TTAAAAGCAA	TTCTAAGCTC	TCTTTTTGTC	АТАТААТАТС	TATTGTTTTA
300	TTAAGACAGA	ATAAAAAGCT	ATTAGGGCAA	AAAAGTCCAT	GACAAGGATA	AAAGAGTCAA
360	AAATATTGGC	GCAGAGAGAT	TAGCAAAGGT	AGAAAGACCA	AAGTCAAATA	TGACAAATCT
420	TCAGACTATA	TCAAATTTAT	ATTTTTCAAA	TTTTTTATCC	CTGCCTTTAT	GGTCTTCGGA
480	ACTTTAATCA	GTAAAAAATT	AACATGGCTT	ТТСАТАТААА	TACACTTAAA	TATGCACATA
540	ACTTGGAAGT	TACGGACTTC	CAAGCTAAAT	GTGATGTTTG	ATTTAAAATT	CAATAATCGC
600	TCCAACAGAT	CAGATGAATA	AATTTGCTGG	ATAGATAGAA	ATCTTTTATA	TTTCCCTTGT
660	TACATTCATT	GAGTTTCAGC	TTTAAAAGAA	TAGTTCAGTG	CTTTTATAGG	TCTGCTATCT

1355

CTTTTTCTTT	GAGTGTACTC	TGTAATGCTT	TGACAATATT	TTTCCTTAAA	TAAATTTTTT	720
AATTTAGTAC	CACTCATTTT	AGATATTTTT	TCAAGCGTGC	CTTGATTTAC	ATTCGTTGCA	780
AAATGATCAT	CTAAGAATCT	TGCTACATCT	TCAAGTGCTT	TATCATCATC	AATTTCAATT	840
TTATATTTT	TTCTATTTAA	GTATGTGTCA	ATTACTATAC	TTATCCATTC	ATTTGCCTTT	900
GCTTTAAAGA	AAAAATCAGC	GGCAGGAGCG	TCCATCTTAC	AATTTAATAT	TTCCATTGCC	960
ACTCTTTCTA	AGGCCTTTGT	AAGTATTATT	TGATTCGGTT	GAAGCAAGGT	TGAATAAAAA	1020
GATTCTGGAT	TAATGTTAAT	AGATGCTAAA	TGTTTTTCTA	TTAGCTCTTT	TTTAAAACCm	1080
ATGGAAACAG	CAAGATAACA	ACAATTCTCG	TGTAATAAAA	АААСААААТТ	ATCTTTTATA	1140
ттатсаааат	CAAAAGTACA	TAGAGAGTTT	GCGGTAATAG	TTTGATACGG	ATTAAACTTT	1200
TCTCCGTTTG	CACTGACAAT	GTAACTTGAA	TAAATTGAAA	CATAGTCTGA	САТАСТАТАА	1260
GTGCTATTTT	GAACTACTTC	CTCTTTGATA	TAAAAATCAT	GTATATCGAT	AATGAAGATG	1320
CCTCCTTCAT	AAAACCGGTA					1340

(2) INFORMATION FOR SEQ ID NO: 331:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 607 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 331:

TATGTTCGTG	ATGAGTTTTT	AAGTAGGAAA	AACGTGCTAA	CCTCTCAGAT	TTTGGAACTT	60
GTAAAAGAAA	CTCTTTTTC	ACCCGTAGTA	GTTGATAATG	GGTTTGATCC	GGCCTTATTT	120
GAAATTGAGA	AAAAACAATT	GCTAGCAAGT	TTAGCAGCTG	ATATGGATGA	TTCTTTTTAT	180
TTTGCACATA	aagaattgga	TAAATTGTTT	TTTCATGATG	AACGTCTTCA	ATTGGAATAT	240
AGTGATTTAC	GAAATCGTAT	TTTAGCTGAA	ACTCCACAAA	GTTCTTATTC	TTGTTTCCAA	300
GAATTTTTAG	CCAATGATCG	AATAGATTTC	TTTTTCCTAG	GTGATTTTAA	TGAGGTTGAA	360
ATTCAAAATG	TATTAGAATC	ATTTGGCTTT	AAAGGTCGAA	AAGGAGATGT	GAAGGTTCAG	420
TATTGTCAAC	CTTATTCTAA	TATCCTTCAG	GAAGGTATGG	TTCGGAAAAA	TGTGGGACAA	480
TCCATTTTGG	AATTAGGTTA	TCATTACTGT	TCTAAATATG	GTGATGAGCA	ACATTTACCC	540
ATGGATTGAA	TGAATGGTTT	ACTTGGTGGA	TTTGCTCACT	CTAAGCTCTT	TACAAATGTC	. 600
CGGGAAA				•		607

(2) INFORMATION FOR SEQ ID NO: 332:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 900 base pairs (B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 332:

TTAAAATACC GA	ATTTTGTT	TTGTCCTCTA	TTTCAACATT	GTGAATCGCC	TCAGGCAGAG	. 60
AACCGATACT AA	AGATATAA	CCAAAATAGT	TGTCATTTGC	TTTACCGATA	TCAATCTTAT	120
TGGTTAAATC AA	AATCCAGT	TCGTCAATTG	CGCCATCGAT	GTCTTGATTG	ATTTCCAAAA	180
GTTTTGTAAT GA	GGTTACCC	GTACCGCCTG	GGATAATCCC	TAACTTAGGA	ATGTAGTCTĊ	240
TCTCATCAAT AC	CTGAAATG	ACTTCATTGA	CAGTTCCATC	TCCACCAAAC	ACAACCACTG	300
CATCATACTG CT	CACGAGAA	GCTTCTTCAG	CAAAATGTGT	TGCATCCAGC	GCTTTTTCGG	360
TAATTTTGGT TT	CAACATAT	TCAAAGTATT	CTTTTGCTTT	ATTCTCCAGC	TTTTCTTTGT	420
AATCCAAAGC CT	TCTCGCCA	CCAGAAGTAG	GGTTGATAAT	TACCATTGCT	TTTTTCATTG	480
ATTTTATCCT TA	ATTTTAAA	CAGAAATGTT	TACATTTCGT	CGTATGCAAG	TAAATGTAAT	540
CCTATTATAC AA	TGAAAATA	CAGAAAAGAG	AAATCTGACG	TACTGGAGAT	TAATACGCTT	600
TTATTCTATT TT	CCCATCGC	CTAACTACAT	CCTTTAAGGG	TTCATCCAAG	TAAGAATAGG	660
CCTTATCCTT GA	TCCAATCA	GGAATACCGT	AAGCTGCCTC	TGCTAWGCTA	CAAGTGATTG	720
CTGCGAGAGT AT	CACTGTCG	CCACCAAGTG	AGATGGCATT	TCTTATCGCA	TCTTCGAAGT	780
CTCTACTTTC AA	GAAAGGCG	ATAATGGCTT	GAGGGACAGT	TTCCTGACAT	GTTTCGTTAA	840
AACGATAGTT AG	GACGGATT	TCATCTAAAG	TTTGAGATAG	ATTGTAATCG	TATTCTTTTT	900
(2) INFORMATION	ON FOR SE	Q ID NO: 33	13:			

PORMATION FOR SEQ ID NO: 333:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 533 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 333:

CCTTTCTGGC ACACTGGTCT TGGAATACGG CAAAACCTCT GAAAATATCT ATGCTGGAAT GGACGAGGAA TACCGTCGTT ATCAGCCTGC CATCATCACT TGGTACGAAA CAGCCAAACA 120 TGCTTTTGAT CGCGGACAGA TTGGCAAAAT ATGGGTGGAA TCGAAAACGA CCTCAAGGGC 180

200.	
GGTCTCTACA GCTTTAAATC CAAGTTCAAT CCGACCATTG AGGAATTCGC TGGTGAGTTC	240
AACCTGCCAA CTAATCCTCT TTACCACCTC TCCAATCTGG CCTACACTCT CAGAAAGAAA	300
CTGCGCAGAA GCATTAACAG AAAGGAAGCC TATGACCTTT AAACTTCTCA GCCAAGAAGA	360
ATTCATCCAG CATACCTCAG CTAGATCCCA ACGCTCTTTT ATGCAGACCG TAGAAATGGC	420
AGAGCTGCTG AGCAAGCGTG GCTTCAGTAC CCAGTATGTC GGCTACACTG ACCCACAAGG	480
GAAGGTAGTG GTGTCAGCTG TCCTCTACAG CATGCCTATG ACTGGTGGCC TTC	533
(2) INFORMATION FOR SEQ ID NO: 334:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 544 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 334:	
CCAGCAAACT AGGAAGCTAG CCGTAGTTGC TCAAAGCACA GCTTTGAGGT TGTAGATAAG	60
ACTGACGAAG TCATGTACAA AACACTGTTT TGAGGTTGCA GATAGAACTG ACGAAGTCAC	120
TCAAAACACT GTTTTGAGGT TGCAGATAGA ACTGACGAAG TCACTCAAAA CACTGTTTTG	180
AGGTTGCAGA TAGAACTGAC GAAGTCAnnA ACCACACCTA CGGCAAAGTG AATCTGAAGT	240
GGTTTGAAGA GAGTACAACT TGTCTTTTAG AAAAGGAGCC TATAATGAAA GTCTTTCAGC	300
ATGTAAATAT CGTGACTTGT GATCAAGATT TCCATGTTTA TCTTGATGGA ATCTTAGCAG	360
TCAAGGATTC TCAAATCGTC TATGTCGGTC AAGATAAGCC AGCGTTTTTA GAGCAAGCTG	420
AGCAGATTAT AGACTATCAG GGAGCTTGGA TTATGCCTGG TTTGGTCAAT TGTCACACCC	480
ATTCTGCAAT GACAGGTCTG AGAGGGATCC GAGATGACAG CAATCTCCAT GAATGGCTCA	540
ATGA	544
(2) INFORMATION FOR SEQ ID NO: 335:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs	

- (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 335:

CCAGGAACTC AAATGTAAGT AGGGGTTCCT TTTTTGTATA TTTTTCAAAT AACGCCTCTA

60

			1358			
CACTATTTGT	AGCAAATTCA	CCAACTACAG	TTGTATCTTA	GTTAAAATAA	GTTAGAATAT	120
GTAAGTGAGT	ACCAGATATA	CCAAGACATC	GTCACCATCT	AAGGTATATT	CAAAATACAA	180
AAGTTGACCA	ACTAGATTTC	TGAATATCCT	TATATATCCA	ТТСТТААААТ	TGGTTTAAAT	240
AGCGTAGTCT	TTTAAACTAG	TTTTGAGAAT	ССААААААТС	TTCCTACATA	TGTAAGAAGA	300
TTTTTTAGTT	CAGAATGATT	AGATTTAGCT	AATGGATACC	TATCCTACC		349
(2) INFORM	ATION FOR S	EQ ID NO: 3	36:		•	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1206 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear						

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 336:

CTCCGATAAC CACACCAGCA ATGGAAATAA TTCCATCGTT AGCATCAAGA ACACCCGCAC 60 GCAGGATATT TAAACGACCT GCAAAATTTG AATCAATTTC GTGATTTGTT TCTGACGCTA 120 AATTTCAAGT TCAAGTTAGC CATCAAGAAG TCTTCTCTGG GTGACTTGTA GTCCAAGCAT 180 TTTTTAGGAT AGTTGTTAAT CCACTTTTCG ATGAATGCGA CTTCTTTGGG AGTCATTTTC 240 TTGGTTCCCT TAGGTAACCA TCTACGAATG AGCCTGTTGT GATTCTCATT AGTTCCCGGG 300 ATCCTCTAGA GTCGACCTGC AGGCATGCAA GCTTGGCACT GGCCGTCGTT TTACAACGTC 360 GATGACTGGG GAAAACCCTG GCGTTACCCA ACTTAATCGC CTTGCAGCAC ATCCCCCTTT CGCCAGCTGG CGTAATAGCG AAGAGGCCCG CACCGATCGC CCTTCCCAAC AGTTGCGCAG 480 CCTGAATGGC GAATGGGGCC TGATGCGGTA TTTTCTCCTT ACGCATCTGT GCGGTATTTC 540 ACACCGCATA TGGTGCACTC TCAGTACAAT CTGCTCTGAT GCCGCATAGT TAAGCCAGCC 600 CCGACACCCG CCAACACCCG CTGACGCGCC CTGACGGGCT TGTCTGCTCC CGGCATCCGC TTACAGACAA GCTGTGACCG TCTCCGGGAG CTGCATGTGT CAGAAGTTTT CACCGTCATC 720 ACCGAAACGC GCGAAACGAA AGGGCCTCGT GATACGCCTA TTTTTATAGG TTAATGTCAT 780 GATAAGGATG GTTTCTTAGA CGTCAAGTGG CACTTATCGG GGAAATGTGC GCCGAGACCC 840 TATTTGTTTA TTTGTCTAAA TACATTCAAA TATGTATCCG CTCGTGAGAA AATAAACCTG 900 ATAAATGCGT CAATAATATT GAAAAATGAA GAGTATGAGT ATTCTACATT TCCGTGTCGC 960 CCTTATACCC TTTTTTGCGG CATGTTGCCT TCCTGTTTTT GCTCACCCAG AAAACGCTGG 1020 TGAAAGTTTA AGATGCTGAA AAATCATTTG GGTGCACAAC TGGGGTTACA TCCAACTGGA 1080 ATCTCCANCA GCAGTTAAGA TCCTCTGACA GTTGTACACG CCGCAAGAAC TATTCCCGAT 1140

1359

GAATGAGCAA CTTTTAAAAG TCCTGCGAAT GTTGGGGCGG TAATAATCCC CGTGTTGTAG	1200
GCCCGG	1206
(2) INFORMATION FOR SEQ ID NO: 337:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 813 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 337:	
CTGCTCAACT CAGACAGTCA AATTTCTGAC TTTACCAAAA GAACCATCAA AAAAGTTGCT	60
GAAAAAGGCC ATCAGGTTAT TATTACGACA GGTCGCCCTT ACCGTATGTC AAAAGATTTT	120
TACCGTGAAC TGGGCTTAGA CACTCCTATG ATTAACTTCA ACGGATCCCT TACTCATTTA	180
CCAGACCAAG TTTGGGATTT TGAAAAGTGT TTGACTGTAG ACAAAAAATA TCTGCTAGAT	240
ATGGTTCAAC GTTCAGAGGA CATTCAAGCC GATTTTATCG CTGGAGAATA TCGTAAAAAA	300
TTCTACATTA CAAATCCCAA TGAAGAAATT GCCAATCCCA AACTATTTGG TGTAGAAGCT	360
TTCCAGCCTG AAGATCAATT CCAGCCTGAA TTGGTGACCA AGGACCCTAA CTGTATCCTC	420
TTGCAGACTA GAGCCAGTGA CAAATATTCC TTGGCAAAAG AAATGAACGC CTTCTACCAG	480
CATCAACTTT CTATCAATAC CTGGGGAGGT CCGCTCAATA TCCTTGAATG TACCCCAAAA	540
GGTGTCAACA AGGCCTTTGC TTTGGACTAC TTGCTCAAGA TAATGAATCG TGACAAAAA	600
GATTTGATTG CCTTTGGAGA TGAACACAAT GATACCGAAA TGCTCGCTTT TGCTGGGAAG	660
GGTTATGCCA TGAAAAATGC CAATCCAGAG CTACTCCCTT ATGCAGATGA GCAAATTTCC	720
CTTACCAACG ACCAAGATGG GGTTGCCAAA ACCCTACAAG ACTTATTCTT ATAACCTATA	780
CTGATACTCA ATGAGGGGCA AAGAGCGAAC TTA	813
(2) INFORMATION FOR SEQ ID NO: 338:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 683 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 338:

CCTAGATAAA TGATATAATT CTATTATTGT TCGTAAAAAAT TAAAAGGAGA TTGATGATGG

60

			1360			
ACAAATTATT	ТАААСТАААА	GAGAACGGTA	CAGACGTTCG	TACAGAGGTT	CTCGCTGGTT	120
TAACAACTTT	CTTTGCAATG	AGCTATATTC	TCTTTGTAAA	CCCACAAATA	CTTTCACAAA	180
CAGGAATGCC	TGCTCAGGGC	GTCTTCCTAG	CGACGATTAT	TGGTGCAGTA	GCGGGTACCT	240
TGATGATGGC	TTTTTATGCT	AACTTACCTT	ATGCCCAAGC	GCCAGGTATG	GGACTCAATG	300
CCTTCTTTAC	CTTTACAGTT	GTATTCGGGC	TTGGTTATTC	TTGGCAAGAA	GCCCTAGCTA	360
TGGTCTTCAT	CTGTGGGATT	ATTTCATTGA	TTATTACCTT	GACAAATGTT	CGTAAAATGA	420
TCATTGAATC	GATTCCCAAT	GCTCTTCGCT	CAGCTATTTC	AGCTGGTATC	GGTGTCTTCC	480
TTGCCTATGT	AGGGATTAAG	AATGCTGGAC	TTTTGAAATT	CACGATTGAT	CCAGGCAACT	540
ATACTGTTGT	AGGAGAAGGG	GCTGACAAAG	CTCAAGCAAC	GATTGCAGCA	AACTCTTCAG	600
CAGTTCCAGG	ATTGGTCAGC	TTTAATAATC	CAGCTGTTTT	AGTGGCTCTT	GCAGGACTTG	660
CCATTACTAT	CTTCTTTGTC	ATC				683
(2) INFORMA	TION FOR SE	EQ ID NO: 3	39:			

- (i) SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 852 base pairs

 (B) TYPE: nucleic acid

 (C) STRANDEDNESS: double

 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 339:

60	ACTACGTTTT	TTACTTTGTA	CAGTTAGAAA	CACTGAATTC	TGGAAGTAGT	CTACTTTACA
120	CTAAATTAAT	CTAGCGATAG	ATATTACCCA	CCTACGTTCG	AAAATGCTTT	GAGGAGGAGT
180	GGTTTTTTT	TAATACAGGA	TATTACTGAC	TCTGCTGATT	TCTCCTAAAA	GTGTCTGTGC
240	GATTATTTAA	CACCAGTATC	TTTATATTTC	GCTATTGGTG	AATCATATCT	ATGGACAGAC
300	CATATTTATG	ACAGAAATGG	CACAGAATAA	GCACAGCTAT	TATTTTATTT	TTATTTTAAT
360	GCTTATGTCG	TTTAGTTGCT	TAGGGGCGAG	GGCTTACTTG	TCTAGGCACA	CGGGGCAATA
420	ATCTATTTAG	TTTAATCCCT	GATTGCTTGG	TGGATGGTTG	GCCTGAAGAA	TTAATTTCGT
480	ATTATTGAAA	AGAGGAAGAA	CGGAAGAAGA	GGAGAAGATG	TGCAATTGTT	GGATTCGCTT
540	ACAATTGCGT	TACATTGCTG	TTTGGACAGT	AATCAACTGT	AAGCAAGGCA	GATTAGAACA
600	TGGTCACAGA	TTCGTTAGAT	CTTATTTTGC	ATCTATATAC	TAATTTAGGT	CTGGCGGAGA
660	ATTAGTCGGG	CTTTTGCGAG	GCATAATTAT	TTTGTAATCG	CTTGCTTGTG	CCCTCGTGGC
720	ATCATTGTGC	ATACGAGCGA	CAATTGAAAA	ATATTCGAGA	TATTCCGTTA	TGTTATCCTC
780	ATAGAGACTT	AAATGGCACG	TCATGTATGA	GGACTATACA	CATTCTACTT	CCTTAGTATT

1361

TTCTGATCGT GTAGATTTTT TTGTTTCACT AGGGATTTAG CCCGAGCTCA AATCAGCTCT	840
CTGATTTCA GA	852
(2) INFORMATION FOR SEQ ID NO: 340:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 754 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 340:	
CCGCACAAAA GCGCATAGTA TCAAGATTCT ATAAAGCCTT GATACTATGC CTTTTTAATG	60
GATAAATAGT TAGTCTTTTT TAAAGACCGG ATCTTTCAAA CTCTGCATAC TGGCATTGAT	120
CACCGCGCCT AGGATAACAA TTTTAGCAAT CAAGATAAAC CAAAACATCA TAACAACAAG	180
AAGAACGGAA CCTAAAATTC GGACATCCAC CAAATGATGG ACATAGTAAT TGAGATAACT	240
AGAGAACAGA GTTAGTAAAC CTAAAATCAC TAAGAGAACA AAGGCACTGC CTGGTAGGGT	300
ATAGCTAATT TTCCTGTTAG ATAGATTGGG AAGAAAATAA TAAAGCATGA CCAAGATAGC	360
AAAGAGGAGG GCGTAAATCA GAGGACCTGC CAACCCTTGT AAAGCCTGAT AGATAATGCC	420
ATCTTTTGTC CAATAATGAG CAAGTAAAGC CAAAATCATC TGACCAAATA AGATCAAAAA	480
CAAGGCAAAC GCAAAGAGGA GCTGCAACCA AAACTGACTA GGAGACTTAG CATCTGATGG	540
GAAATAAGTC CACGACTCTT TTCGACGCCA TAAGCCTTGT TAAAAGCTTT TTGCAAGAAA	600
TTCATAGATT TTGAAAAACT CCATAACGCC GATAAAACAG AAAAACTCAA TAAACCTGTT	660
GAAGGTTGCG TCAAGACTTC TCTGGCTATT TTTTCCACAC CTTCATAGAG GCTTGGGGGG	720
CAGACGTCTT TCATAAAGCC CAAAAATTCT CCCA	754
(2) INFORMATION FOR SEQ ID NO: 341:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 707 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	w 000 mg
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 341:	
GGGGATAACT CTAGGAGTAC CGCTATTACT CGACTTAATG AGTGCACAAG AAGTCAGGAT	60
TTTTATGCAG GTTGGGCGCT TCATCAGACA GGGAAGATTT ACAGCGACTA TTATGGAAGT	120

		1362				
CAAGGTTTGC TTT	PATTATTT GCTGACTT	AC GTGAGTCAGG	GCGGATTTTT	CTTTGCCATC	180	
TTTGAGTGGT TAG	SCCTTGGT AGCAGGAG	GA TTTTTCCTTT	TTAGATCAGC	GGACACCTTG	240	
ACAGAGCAAG GAG	GACCAAGC TGGACATC	TG GTGACTATTT	TTTACATGCT	AGTTACAGGT	300	
CTTGCTTTTG GTG	GGAGGCTA TGCGACTC	TT TTAGCGCTTC	CTTTCTTATT	CGCAGCCTTT	360	
AGTTTAGTTG CGC	SCTTACCT AAGCAATC	CA AGCCATGATA	AGGGATTTGT	ACGGATTGGG	420	
CTAGCTTTGG CAC	GCGGATT TTTCTTTG	СТ СССТТАТСАТ	CGCTCCTGTT	TATTGCTGTA	480	
GTGAGTTTAG GC1	TTGTTGGT CTTTAACC	TT GGGCATAGAC	GCTTTGCGCA	TGGGTTTTAT	540	
CAGTTTCTTG CAG	STGGCTTT AGGTTTTT	CA CTTGTCTTTT	ATCCAACTGC	CTACTATAGT	600	
GCTGCAACAG GAA	AGTTTTGG GGATGCGW	TT AGTGGTATTC	GTTATCCTAT	TGACAGTATT	660	
CGCTTTGATT TTA	CTTCTAA AATTTTAG	AG AATATGTTTT	TTTAAGG		707	
(2) INFORMATION FOR SEQ ID NO: 342:						
	ENCE CHARACTERIST					
	LENGTH: 762 base	•				
1 ,	TYPE: nucleic ac					
,	STRANDEDNESS: do TOPOLOGY: linear					
(5)	Toronogi. Timear	×				

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 342:

GGATTTTGAA	AAACCATACC	GATTTGACGA	CGTATATTCC	AAACATTTTC	CTCAGTCAAA	60
CGTTGGCCAT	CAATTACAAT	CTCTCCGGAT	TCTGCTTCCA	GTAAGCCATC	AATTAATCGA	120
ACCGTCGTTG	ATTTACCACT	ACCATTATGC	CCTACAATCG	AAAGCCATTC	TCCACGTTTC	180
ACGTGAAAgT	AATATCCTTC	ACATCGTAGT	AGTTCTGATT	TTCTTTATAG	CGAAAAGAAA	240
GATTTTTTAC	ATCAATTATT	GATTTCATTT	CGAACCAAAT	GTCCCTTTAA	ATACATAGGC	300
ACTACCCTTG	AAATAGTCAT	AGCCAGAGTA	GATAGTGAAA	AATAAGGCTA	CATAAAGTAG	360
AACTTGACCA	AGCAAAGTCC	AATGTAATAG	CAAGAAAATA	ATGGCAAACA	TCTGACTAAA	420
AGTTTTAATT	TTTCCAGGCA	TTGCTGCTGC	TAAAATTGTT	CCACCAGTTT	CAACCAATAA	480
AAGCCTTAAA	CCTGTCACAG	CTAACTCACG	ACAGATAATC	ACTGCAACAA	TCCAAGCCGG	540
AGCCATACCT	AACTCAATCA	ACATAATAAA	AGCCGACATA	ACTAGTAACT	TATCCGCCAT	600
AGGATCTGCA	AATTTACCAA	AATTACTGAC	CACATTCCAT	TTACGAGCTA	AATATCCATC	660
TAAATAGTCG	GTAATACTGG	CAACAGCAAA	GATAATAGCT	GCAACTATAT	GACTCTCTAT	720
CGAATTTCCT	ATCGTTAAAA	TAAAGATAAA	AATAGGTATA	AA		762

(2) INFORMATION FOR SEQ ID NO: 343:

1363

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 482 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 343:	
CTTTTGATAC ACTTAAACTA TGAATACAAA TCTCAAGCCC AAACTTCAGC GTTTTGCTTC	60
TGCGACTGCC TTTGCCTGTC CTATCTGTCA AGAAAATCTG ACTCTGTTAG AGACTAATTT	120
CAAGTGCTGC AACCGTCATT CTTTTGACTT GGCGAAATTT GGCTATGTCA ATCTAGTCCC	180
TCAAATCAAG CAATCTGCTA ACTACGACAA GGAAAATTTT CAAAACCGTC AACAAATCCT	240
AGAAGCCGGC TTTTACCAAG CTATCTTAGA TGCTGTATCT GACTTGCTTG CAAGCTCAAA	300
AACTACCACA ACAATTTTGG ATATCGGTTG TGGTGAAGGA TTCTATTCTC GCAAACTACA	360
AGAAAGTCAC TCTGAAAAAA CTTTCTATGC CTTTGACATC TCCAAAGATT CAGTCCAAAT	420
CGCGGCTAAA AGTGAACCCA ACTGGGCAGT CAATTGGTTC GTTGGCGACT TGGCACGACT	480
TC	482
(2) INFORMATION FOR SEQ ID NO: 344: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 520 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 344:	
TTTATTTTTA TAAAGTCAAT ACCTGTCTTT ACTTTTTCTT AAAAAAAGTT TATTATGTTC	60
TTTAAGGAGG TGTAAAACAT GAAAATAAAT AATAAACTCG TTGGAGAACG TATTCAAAAT	120
ATCCGTTTAA GCCATGGCGA CTCTATGGAA AAATTTGGAG AAAAATTTAA TACTAGCAAA	180
GGTACAGTTA ACAACTGGGA AAAAGGTCGC AATTTACCAA ATAAAGAAAA CCTACTAAAA	240
ATTGCATCTA TTGGAAAAAT GAGTGTTGAA GAGTTACTCT ACGGCGATTA CAATACTTAT	300
CTACACTTAA AGATTATGGA TTTAGCTCCT GAATGTATAA AAAATTATGA TGAGTATAAC	360
TCTTTACACG ATGATATAAC AAATAAAGCG TTACAGATCG CTCAAAATAC CATTTCTAAG	420
ATTGATTATC AAATTTCAGA CGAAACGATC AAAAAATTTA TTGATTTAGC TATCGAACAA	480
TCGAGAGATT TGCAAGGAAA TTTGTTGAAA AATAACGGGT	520

(2) INFORMATION FOR SEQ ID NO: 345:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1003 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 345:

GCATCAAATC	CGCCATCAAA	GAAGTTCTCT	GGATTTACCA	AGACCAGTCA	AATAGCTTAG	60
AAGTGCTTAA	TGACAAGTAC	AATGTTCACT	ACTGGAATGA	CTGGGAAGTT	GGAGACACGG	120
GAACCATTGG	TGAGCGCTAT	GGTGCCGTTG	TTAAGAAACA	CGACATTATC	AATAAGCTTC	180
TCAAACAGTT	GGAAACCAAT	CCTTGGAACC	GCCGCAATAT	TATTTCGCTC	TGGGATTACC	240
AAGCTTTCGA	AGAAACAGAT	GGGCTGCTCC	CGTGCGCCTT	TCAGACCATG	TTTGATGTTC	300
GCCGTGTTGA	TGGGGAAATC	TATCTGGATG	CGACCTTGAC	CCAGCGCTCC	AATGATATGC	360
TGGTGGCCCA	CCACATCAAC	GCTATGCAGT	ATGTGGCTTT	GCAGATGATG	ATTGCCAAAC	. 420
ATTTTGGCTG	GAAGGTTGGG	AAGTTCTTCT	ACTTCATCAA	CAACCTCCAT	ATCTATGATA	480
ATCAATTTGA	ACAAGCTCAG	GAATTGCTCC	GTCGGGAgCC	GTCAAACTGC	CAACCACGCT	540
TGGTTTTAAA	TGTTCCTGAT	GGGACTAATT	TCTTTGATAT	CAAAGCAGAA	GATTTTGAGT	600
TGGTGGATTA	TGACCCTGTT	AAGCCACAGT	TGAAGTTTGA	CCTAGCTATT	TAAAAGAATA	660
GAAAAAAGAA	GTTGAGAATA	ATCCCAACTT	CTTTTGTTTC	TTAACGTGAT	ACGCGGCGAC	720
GAGCTGCTTT	TTTACGGTTT	TCTTCGATGA	AAGCTGCTTT	TTGCTCTTCT	GGTTCGATTA	780
CTTTCTTTTT	AAATGCGTAT	ACTGCACCTG	CAACGGCAGC	GACAGTTCCT	GCGACACCTG	840
TTACAAGACC	TTTAGCGAAT	CCTTTAGCCA	TGAGTCTTCC	TCCTTTATAT	TCTCAATCAG	. 900
CCAGCCTCCT	CAAGAGGTCA	CATTTTTCTG	ACTGACCTTT	TTGTGTTATA	ATAATAGTAA	960
CGAAAAAATG	GGAATTTTTC	AAGGAAAAA	GATGAGAACA	AAA		1003

(2) INFORMATION FOR SEQ ID NO: 346:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 750 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 346:

ECGCACGTAC TATTCCAGAT GCCGAGGAAG TGGACCTCAT CCTCGTTGGC GCAACTGGTC

60

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TCAACGCCTT	TGAACGCCTC	TTGGTCGGCT	CTTCATCTGA	ATACATACTC	CGCCATGCTA	120
AGGTCGATTT	GCTGGTTGTG	AGAGAACAAG	AAAAAACCTT	ATAATCACAA	AGAAÀAGGAG	180
CCCCTAGCTC	CTTTTTGTTT	ACGATTTATT	TCTCTCTTTA	TGGCGTTCGT	AAGCCTTGAG	240
CTGGCGCTGC	AGTTCCTTTT	TAATAGCAGG	TTCTGGAGCA	TATTTTTCTT	CCCAATTATC	300
TGGTTTTAAG	ATTTTATGGG	TCACTGGATC	AAAATGAGCC	TTGCCATCTG	GAAAAATTTT	360
CCCCATATTG	GCCTGATGGA	CAATATCAAA	AATACGTTCT	GGGTCCACCC	CCATCAAGAC	420
AAAACTGCCG	TAGGTGAAGT	AAAGCGTGTC	AATCAAGGCA	TCCACTTGCC	CTATCAAATC	480
TTGCTGAGCA	GGTGTCTTCT	TGGCTACTTT	ATCTGCTGCC	TTATCAAGGG	CCTGATGAAG	540
TTGCGATACA	GCTTGACCAA	AATCTTCTTC	AGAAGGACTG	GCTGCTCGAA	CAAACTCCAC	600
CAATTCTTCT	ATTTTAAAAC	CAGCCCTATG	GGTTGCACCC	TCTAAATCCC	AAGCTCGAGG	660
TTCTTCTTGG	GTTCGTTCAT	CCATCATGTG	GTGGAAAGTC	TTGACCTTAT	TGAAATGATA	720
GTCACGGCTG	ACAAAGACTT	TTTCTGAAGA				750

(2) INFORMATION FOR SEQ ID NO: 347:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 596 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 347:

CGCAACATAC GGATAACCTC	CAAAGAATAT	TTTTATATTA	TAGCAAAGCT	TTAAATTGAA	60
TGTTAGAGTC TTGTTCAAAA	CAATCATCAA	AACCACGTGG	ATGATGGTAT	TCTACTAAGT	120
GTTGATCTTG AGGATAAGTG	TACTTACCGC	CAACTTCCCA	GATAAATGGA	TGGAAATCGT	180
ATTGCAAGCG ATCTTTTCGC	ATTTTCCAAA	GTTCTAGAAT	CTCATTAGTA	GAAGCCATGA	240
AGTTAGACCA GATATCATAG	TGAACTGGGA	TAATGACTTT	GGTACGCAGA	TTTTCTGCCA	300
TACGAAGAAG GTCGATAGAT	GTCAKTTTGT	CTTGGATACC	TACCGGATTT	TCACCATAGT	360
TATTCAAAGC AACATCAATT	TTAAAGTCTT	TACCATGTTT	TGCAAAATAG	TTTGAGAAGT	420
GAGAATCTGC ACCATGATAG	ATGGTTCCAC	CTGGTGTTTC	AAAGATATAG	TTAACAGCCT	480
TTTGAGCCAT TTCTTCATCT	GTAACAGCCA	AGCCAGCAGT	TCACCGCCTG	TCTCATCAGC	540
ACCGTTCACT GGGAGAGTTA	CCAAGCAAGT	ACGGTCAAAT	GATTCTACTG	CATGAA	596
(2) INFORMATION FOR SEQ ID NO: 348:					

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 673 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 348:
CAGAGTCAAC AGCCTGAGTT GAAGGCAACT TTAGACACAG CAGTTACGAC AGCTGAATGA 6
GCTCCTCCAT CAGTTTTTC TTTAATGAGT CCAGCTACAT CTTCAACTTC GAGGCCGTTA 12
ATCACAATGT CAGCGCCTAC TTCTTTTGCA AGGGCAAGTT TGTCATTGTT GATATCGACT 18
GCGATAACAT GAGCATTGAA TACTTTTTTA GCGTATTGAA CAGCGAGGTT ACCAAGTCCA 24
CCAGCACCGT AAAGAACAAC CCATTGGCCT GGTTCAACTT TTGCTTCTTT GATAGCTTTA 30
TAGGTTGTTA CTCCAGCACA TGTGATAGAA GAAGCTTGGG CTGGATCAAG TCCGTCAGGA 36
ACTTTGACAG CATAGTCAGC AGTTACGATA CATTGTTCAG CCATACCACC GTCTACTGAG 42
TAGCCAGCAT TTTTCACTGT ACGGCAAAGG GTTTCGCGAC CAGTTGTACA GTATTCGCAA 48
GTGCCACATC CTTCAAAGAA CCAAGCAACG CTGACGCGGT CACCGACTTT AAGGCTTTTC 54
ACATCTGGAG CAATCTCTTT AACGATACCG ATACCTTCGT GCCCAAGAAC ACGTCCTGGG 60
ACTTGACCAA AGTCACCATG AGCAACGTGG AGGTCGGTGT GGCAAACGCC CACAGTATTC 66
ACTTCTACAA GTG 67
(2) INFORMATION FOR SEQ ID NO: 349:
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 198 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 349:
GTACCCTACA AATGCTTTAC AGTATGGGTT GAGGGTGGTC AATGGAACTA TGGAGTAGGT 6
TGGACAGGAA CTTTTGGATA TTCTGATTAC TTACATTCTA CTCGATATCA TACAGCAACT 12
GTTAGACATG GGGGTAGAAC CTCTAAGGAT TATGCAAAAC CTGAGGCATG GGCTAGAGCT 18
TCCCTCACCA AGATTCCG 19
(2) INFORMATION FOR SEQ ID NO: 350:
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 891 base pairs (B) TYPE: nucleic acid

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(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 350:

GCTTCTTCTA	TAGACAAAAA	TATCATGGGT	AAAATAATCA	AGGCTATAGC	TAGAAGGAGG	60
GACCAATCCA	CTACTAATCC	TAAGAACAAA	ACACTCAAGA	GAGCAGAAGA	GAGAGGTTCA	120
CTGGCACTGA	TAACGGCAAC	CACCAAAGGA	GAÄACCAAGG	ACACAGCCTT	CATGGAAATG	180
AAAAAAGCAA	AAGCCGTTCC	AAAGAAAGCG	ATAATGAGGC	AAATCAAGAT	ACTCCAAATA	240
TCAAGAGTAA	AGGAAAGCTG	ATAAACCGGC	GAGAGGACAT	TGCTAAACAA	ACCTGCCAAA	300
ATCATCCCCC	ACCCAACCGT	AGGAACAAAA	CCATAACGCT	TAGCAAAAGG	TTGGGGCAAG	360
ATAACATTAA	ACATAACACC	CATGGCACTC	AGCAAACCTG	TTATAAGAGC	TAGCGGCGTC	420
ATGGATAACT	GAGAGAGGTC	TCCCTTTGTC	GCCATCAAGC	AAACACCCAG	CATGGCAACC	480
AAAACATAGA	AAACAGCGCT	TTTTGACGCT	CGTTTTTGAT	AAACCAAGCG	ATTGTAAAAG	- 540
AGGATAAAGA	CAGGGCTAAT	AAACTGTAAA	ATAGTTGCTG	TCGTAGCATT	TGAGTATTCT	600
ACACAGAGAT	AGAAAAAATA	CTGAACTGAA	AAAATCCCCA	AAATAGCATA	GGCTAAAAAG	660
GGCAGGTAAT	TTTTCTTGTC	TCGCCAAATA	TCTAGCACTT	GCGATTTTAA	TTGTATTGCA	720
GACCAAATGA	GTACAAGACT	CCCTGCCAGT	GTCAAACGCA	TAGAGGTAAT	CCAGCCCGAA	780
GACACCTGAT	AATGAGTAAA	GAAGTACTCT	CCTAAAATTC	CACAGATTCC	CCATATTAAG	840
CCGGATAGGA	GCGAATAAAT	TTTTCCGTTA	ACAATCTTTT	TCTGATACTG	A	891

(2) INFORMATION FOR SEQ ID NO: 351:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 325 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 351:

GAAAGCGTTC AATAGAACAT TGCTTTTTTA TTTTTAGAGT AAGCTAAGCG CTTCAGCATC 60
TGCGATGATG GTTACATCAG GGTGATTTTG GAGGCTACTT GCAGGTAGGT TCTCAGTCAC 120
TGGGCCAGAT ACTGTTCCGG CAATGGCTTC TGCTTTCGAC TCACCGTAAG CAAAAAGAAT 180
AATAGACTTG GCATCCAAAA TGTTTTTAAT CCCCATTGAA ATAGCTTGGG TTGGGACGTC 240
TTCAATCTTG GCAAAGAAGC GTGCATTGGC TTCGATAGTA GACTGGTCAA GTTCTACTAG 300

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ATGCGTTTGA CTGTCAAATG GAGTG	32
(2) INFORMATION FOR SEQ ID NO: 352:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 344 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 352:	
CAAGAGCAGT TTGATGATTT TTGATAAGCA TGCGAATTTA AAATACAAAT ATGGCAATCG	60
CAAGTTTTGG TGTAGAGGCT ATTATGTAGA TACGGTAGGC CGTAATCAGA AAGTGATAGC	120
TGAATATATT CAGAATCAAT TACAAGAAGA CAGAGTAGCA GACCTAGCTC ACGTTATTCG	180
AGTCAGTAGA TCCGTTTACT GGCGAAATAA ATAAGAGGAA GTAACGTNAA GTGCTTTAGC	240
ACCTGCTCGG GAAAGTGGTG CGCGAGGAAG CTATTTCAGG ATGCTTTGGC CCTGGCCGGT	300
AGAAGCGTTA TAGCCGCAGA CTACGACACT TCACACTGGT GGTT	34
(2) INFORMATION FOR SEQ ID NO: 353:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 692 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 353:	
CCCTATCCCT GCTATTGGGG CTGCTCTCAT TGCTGCTTTG GCACAAATCA GTCTTCCAAT	60
TGGACCTGTT CCCTTCACTC TGCAAAACTT TGCAATCGGC TTGATTCTAC TGTCTTTAGA	120
CCGAGAGAGG CTGTACTTTC TGCTGGACTC TATCTTCTTC TAGGTGCTAT CGGTCTTCCT	180
GTCTTTGCAG GAGGTGGAGC TGGTTTTCAG GCTTTAGTTG GCCCTACTGC AGGCTATCTT	240
TGGTTTTATC TCGTTTACTC TGGACTTACT TCCTCTCTAA CCAACAGCAA GAGTGGTGTT	300
GTTAAGATTT TTCTTGCAAA CCTCTTGGGT GATGCCCTTG TCTTTGTCGG CGGGATTCTC	360
AGCTTGCATT TCCTAGCTGG AATGGCATTT GAAAAAGCTC TTGCTGTGGG GGTTCTTCCC	420
TTTATCATTC CAGACCTTGG CAAACTTCTA GCTATTAGTT TTATTAGCCG TCCCCTACTT	480
CAACGCCTTA AAAATCAGGC TTACTTTACT AACTAAAAAA GGATATCGAG TTATCATGAC	540
TCAATATCCT TTTCTTTTAT TTTGAAAACT TATACTCAAT GAAAATCAAA GAGCAAAACTA	600

GGAAGCTAGC CGCAGGCTNG CAAAACACTG TTTTGAGGTT GTGGATGAAA CTGACGAGTA

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ANATOTOATA CATACGGCAA GGCAAAGCTG AC	692
(2) INFORMATION FOR SEQ ID NO: 354:	

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1005 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 354:

GTGATGGACT	ACTGGTTCAA	AACGCATCCA	GAAGATTTTT	TCGATAATGT	CGGACCTCTT	60
GTAGCCAGTA	ACTTTTTTCA	TACTTACACC	GAAGATTTCC	ACTTGATGAA	GGAAATTGGA	120
GTTAATTCTT	TCCGCACTTC	CATCCAATGG	AGTCGACTCA	TCAAGAATTT	AGAGACAGGT	180
GAGCCTGATC	CAAAAGGTAT	TGCTTTCTAC	AATGCCATCA	TTGAAGAAGC	TAAAAAGAAC	240
CAGATGGATC	TTGTGATGAA	TTTACATCAT	TTTGATTTAC	CAGTGGAACT	TCTTCAAAAA	300
TACGGTGGTT	GGGAAAGCAA	ACATGTAGTG	GAGTTATTCG	TGAAGTTTGC	CAAGACTGCT	360
TTCACATGCT	TTGGAGATAA	GGTTCATTAC	TGGACAACTT	TCAATGAGCC	AATGGTCATT	420
CCAGAAGCAG	GGTACTTATA	TGCTTTCCAT	TATCCAAATC	TAAAAGGAAA	GGGAAAAGAG	480
GCCGTACAAG	TCATCTATAA	TCTAAACCTT	GCTAGTGCAA	AAGTGATTCA	ACTATATCGC	540
TCATTAGAAC	TTGATGGAAA	GATTGGGATT	ATTTTAAACT	TGACACCTGC	TTATCCAAGA	600
AGTAATTCTC	CAGAAGACTT	AGAAGCAAGT	CGATTTACAG	ATGACTTCTT	TAACAAAGTC	660
TTCTTGAATC	CAGCTGTTAA	AGGAACTTTC	CCAGAAAGAT	TGGTAAAACA	GCTAGAGAGA	720
GATGGCGTGT	TATGGAGTCA	TACCGAAAAA	GAGCTTCAAC	TGATGAAATC	AAATACGGTT	780
GATTTTCTTG	GAGTAAACTA	CTACCATCCA	AAACGTGTTC	AAGCACAAGC	AAATCCTGAG	840
GAATATCAGA	CGCCCTGGAT	GCCAGACCAA	TACTTCAAAG	AGTATGAATG	GCTGGAGCGT	900
CGCATGAATC	CATATCGTGG	TTGGGAAATT	TTTCCGAAAG	CCATTTATGA	TATTGCTATG	960
ATTGTGAAGG	AAGAATATGG	TAATATCCCA	TGGTTTATCA	GTGAA		1005

(2) INFORMATION FOR SEQ ID NO: 355:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 973 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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i) s	SEQUENCE DE	SCRIPTION: S	SEQ ID NO:	355:		
GCA	ATATTAAAA	GAGTAAACTA	TTAACTAGTT	AATTAACCGG	TTTATTACTT	60
TA	CAAATATACT	TAAGAAAAGA	GGAAAGAATG	ААААТТААТА	AAAAATATCT	120
ľCA	GTGGCAGTCC	TTGCCCTAAG	TGTTTGTTCC	TATGAGCTTG	GACGTTACCA	180
CAG	GATAAGAAAG	AGTCTAATCG	AGTTGCTTAT	ATAGATGGTG	ATCAGGCTGG	240
CA	GAAAACTTGA	CACCAGATGA	AGTCAGTAAG	AGGGAGGGGA	TCAACGCCGA	300
STT	ATCAAGATTA	CGGATCAAGG	TTATGTGACC	TCTCATGGAG	ACCATTATCA	360
TA	GGCAAGGTTC	CTTATGATGC	CATCATCAGT	GAAGAGCTCC	TCATGAAAGA	420
TAT	CAGTTGAAGG	ATTCAGACAT	TGTCAATGAA	ATCAAGGGTG	GTTATGTCAT	480
AAC	GGTAAATACT	ATGTTTACCT	TAAGGATGCA	GCTCATGCGG	ATAATATTCG	540
SAA	GAGATTAAAC	GTCAGAAGCA	GGAACGCAGT	CATAATCATA	ACTCAAGAGC	600
CT	GTTGCTGCAG	CCAGAGCCCA	AGGACGTTAT	ACAACGGATG	ATGGGTATAT	660
GCA	TCTGATATCA	TTGAGGACAC	GGGTGATGCT	TATATCGTTC	CTCACGGCGA	720
CAT	TACATTCCTA	AGAATGAGTT	ATCAGCTAGC	GAGTTAGCTG	CTGCAGAAGC	780
1AF	GGGAAGCAGG	GATCTCGTCC	TTCTTCAAGT	TCTAGTTATA	ATGCAAATCC	840
CA	AGATTGTCAG	AGAACCACAA	TCTGACTGTC	ACTCCAACTT	ATCATCAAAA	900
GA	AACATTTCAA	GCCTTTTACG	TGAATTGTAT	GCTAACCCTT	ATCAGAACGC ,	960
AT	CTG	•				973
	GCA LAT CAG GCA FAT LAC GCA GCA CAT CCA GGA	ECA ATATTAAAAA LAT CAAATATACT CAA GTGGCAGTCC CAG GATAAGAAAG ECT ATCAAGATTA LAT GGCAAGGTTC LAT CAGTTGAAGG LAC GGTAAATACT EAA GAGATTAAAC ECT GTTGCTGCAG ECA TCTGATATCA LAT GGGAAGCAGG LAC GGAAGCAGG LAC GGTAACTACA LAT GGGAAGCAGG LAC AGATTGTCAG LAC AGATTGTCAG LAC AGATTGTCAG LAC AGATTGTCAG LAC AGATTGTCAG	ECA ATATTAAAAA GAGTAAACTA AAT CAAATATACT TAAGAAAAGA ACA GTGGCAGTCC TTGCCCTAAG CAG GATAAGAAAG AGTCTAATCG CAG GAAAACTTGA CACCAGATGA AAT GGCAAGGTTC CTTATGATGC AAT GGCAAGGTTC CTTATGATGC AAC GGTAAATACT ATGTTTACCT CAA GAGATTAAAC GTCAGAAGCA CCT GTTGCTGCAG CCAGAGCCCA CCA TCTGATATCA TTGAGGACAC CAT TACATTCCTA AGAATGAGTT AAT GGGAAGCAGG GATCTCGTCC CCA AGATTGTCAG AGAACCACAA CGA AACATTTCAA GCCTTTTACG	ECA ATATTAAAAA GAGTAAACTA TTAACTAGTT AAT CAAATATACT TAAGAAAAGA GGAAAGAATG ACA GTGGCAGTCC TTGCCCTAAG TGTTTGTTCC CAG GATAAGAAAG AGTCTAATCG AGTTGCTTAT CAC GAAAACTTGA CACCAGATGA AGTCAGTAAG CAT ATCAAGATTA CGGATCAAGG TTATGTGACC AAT GGCAAGGTTC CTTATGATGC CATCATCAGT CAT CAGTTGAAGG ATTCAGACAT TGTCAATGAA CAC GGTAAATACT ATGTTTACCT TAAGGATGCA CAC GTTGCTGCAG CCAGAGCCCA AGGACGTTAT CAC TCTGATATCA TTGAGGACAC GGGTGATGCT CAT TACATTCCTA AGAATGAGTT ATCAGCTAGC CAT GGGAAGCAGG GATCTCGTCC TTCTTCAAGT CAC AGATTGTCAG AGAACCACAA TCTGACTGTC CAC AGATTGTCAG GCCTTTTACC TGAATTGTAT	CAAATATACT TAAGAAAAGA GGAAAGAATG AAAATTAATA CAA GTGGCAGTCC TTGCCCTAAG TGTTTGTTCC TATGAGCTTG CAG GATAAGAAAG AGTCTAATCG AGTTGCTTAT ATAGATGGTG CAC GAAAACTTGA CACCAGATGA AGTCAGTAAG AGGGAGGGGA CAT ATCAAGATTA CGGATCAAGG TTATGTGACC TCTCATGGAG CAT GAGTTGAAGG ATTCAGACAT TGTCAATGAA ATCAAGGGTG CAC GGTAAATACT ATGTTTACCT TAAGGATGCA GCTCATGCGG CAA GAGATTAAAC GTCAGAAGCA GGAACGCAGT CATAATCATA CACT GTTGCTGCAG CCAGAGCCCA AGGACGTTAT ACAACGGATG CAT TACATTCCTA AGAATGAGT ATCAGCTAGC GAGTTAGCTG CAT GGGAAGCAGG GATCTCGTCC TTCTTCAAGT TCTAGTTATA CAC AGATTGTCAG AGAACCACAA TCTGACTGTC ACTCCAACTT CAG AACATTTCAA GCCTTTTACG TGAATTGTAT GCTAACCCTT	SCA ATATTAAAAA GAGTAAACTA TTAACTAGTT AATTAACCGG TTTATTACTT AAT CAAATATACT TAAGAAAAGA GGAAAGAATG AAAATTAATA AAAAATATCT ACA GTGGCAGTCC TTGCCCTAAG TGTTTGTTCC TATGAGCTTG GACGTTACCA CAG GATAAGAAAG AGTCTAATCG AGTTGCTTAT ATAGATGGTG ATCAGGCTGG CAC GAAAACTTGA CACCAGATGA AGTCAGTAAG AGGGAGGGGA TCAACGCCGA CAT ATCAAGATTA CGGATCAAGG TTATGTGACC TCTCATGGAG ACCATTATCA CAT GGCAAGGTTC CTTATGATGC CATCATCAGT GAAGAGCTCC TCATGAAAGA CAT CAGTTGAAGG ATTCAGACAT TGTCAATGAA ATCAAGGGTG GTTATGTCAT CAC GGTAAATACT ATGTTTACCT TAAGGATGCA GCTCATGCGG ATAATATTCG CAA GAGATTAAAC GTCAGAAGCA GGAACGCAGT CATAATCATA ACTCAAGAGC CCT GTTGCTGCAG CCAGAGCCCA AGGACGTTAT ACAACGGATG ATGGGTATAT CCA TCTGATATCA TTGAGGACAC GGGTGATGCT TATATCGTTC CTCACGGCGA CAT TACATTCCTA AGAATGAGTT ATCAGCTAGC GAGTTAGCTG CTGCAGAAGC CAT GGGAAGCAGG GATCTCGTCC TTCTTCAAGT TCTAGTTATA ATGCAAATCC CCA AGATTGCAG AGAACCACAA TCTGACTGTC ACTCCAACTT ATCAGAACGC CCA AGATTGCAG AGAACCACAA TCTGACTGTC ACTCCAACTT ATCAGAACGC

(2) INFORMATION FOR SEQ ID NO: 356:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 843 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 356:

GGTCGCATCT GCAATATCTG TCGCCTCCAC ATAAGCGACA CCAGCCTTGT CTGCTGCCCG 60

TTTGACACGT TCTGCAGATT GACCCAGGAT GACCATCTC TTGAGTCCAG TAATGTCTGG 120

CACCAATTCG TCAAACTCAT TGCCACGGTC CAAACCACCT GCAATCAAGA CGACCTTGCT 180

GTTGTCAAAT CCTGACAAGC TTTTTGAGTA GCCAAGATAT TAGTTGATTT ACTGTCGTTA 240

TAGAATTTAA CACSCTTGAT GTCATCCACA AACTGGAGAC GGTGTTTGAC ACCACCGAAG 300

GCTGAAAGAG TTTCCTTGAT GGTTTGATTG TCCACATCAC GAAGCTTGGC TACAGCAATA 360

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GTCGCAAGGG	CATTTTCCAC	ATTGTGGCTA	CCTGGAACAC	CGATTTCATT	CGCTGCCATG	420
ACTACTTCAC	CACGGAAGTA	GAGTTGACCA	TCTTCCAGAT	AAGCTCCATC	AACCTTTTCA	480
agtgttgaaa	ATGGTACAAC	AGTGGCTTCT	GTCTTGGAAG	TCAAGTCTTT	TGCCAAGTCT	540
TGATTAAAGT	TCAAGACAAG	GAAATCAGCT	GCTGTCATCT	TGTTCTGGAT	ATTCCACTTG	600
GCTGCTACAT	ATTCCGAAAA	TGACCCATGG	TAGTCGATAT	GAGTTGGCAT	GAGGTTGGTA	660
ATAACCGCAA	TCTCTĠGATG	GAATTCTTGA	ACACCCATGA	GTTGGAAAGA	AGAAAGTTCC	720
ATAACAAGCG	TGTCCTTATC	TGATGCTATT	TGAGCAACCT	GACTAGCTGG	ATAGCCGATA	780
TTCCCTGATA	AAAGACCATG	TTGGCCAGCA	GCAGTCAAAA	CTTCCCGGGn	TCCTCTAGAG	840
TCG						843

(2) INFORMATION FOR SEQ ID NO: 357:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 807 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 357:

TTTTTTTAT	ATTTTTTTA	TTTATTATTT	TTTGGCAAAA	AAGACCAATT	TGCTTTGGAG	60
CATTGCTTCT	GCATTAAATT	GTCTATTTTT	GCTCGTGCTG	TTACGCTCTT	TGTATCATGT	120
ATTAACTAGC	AAGTGCAACT	TGCAAACTAC	TAGTAAGAGG	AGAAAAACAA	AATGGTTATG	180
ACTGACCCAA	TCGCAGACTT	CCTAACTCGT	ATTCGTAATG	CTAACCAAGC	TAAACACGAA	240
GTACTTGAAG	TACCTGCATC	AAACATCAAA	AAAGGGATTG	CTGAAATCCT	TAAACGCGAA	300
GGTTTTGTAA	AAAACGTTGA	AATCATTGAA	GATGACAAAC	AAGGCGTCAT	CCGTGTATTT	360
CTTAAATACG	GACCAAATGG	TGAGAAAGTT	ATCACTAACT	TGAAACGTGT	TTCTAAACCA	420
GGACTTCGTG	TCTACAAAAA	ACGTGAAGAC	CTTCCAAAAG	TTCTTAACGG	ACTTGGAATT	480
GCCATCCTTT	CAACTTCTGA	AGGTTTGCTT	ACTGATAAAG	AAGCACGCCA	AAAGAATGTT	540
GGTGGTGAGG	TTATCGCTTA	CGTTTGGTAA	AATCAAGATA	CAAAGCTCGT	AAAGAACAAA	600
GCAAAATTAG	GAAGTTGGAG	AAGTTTGTTT	ACAAACAGGC	CAACTTATCT	ATTTTGCACA	660
GTTCTTAGAG	CGTGTTCAGT	TCAGCTCTTG	AGCTAAGTAA	GTATCTGAAC	CCCGTGAAAA	720
CTGGCCGTGC	TGGCATGTTC	GGGTAACAGG	AGAnaataaa	CATGTCACGT	ATTGGTAATA	780
AGTTCAGCTA	AGGCCTTCGT	AAAAGTT				807

121	INFORMATION	PAD	CEA	TD	NO.	350
161	INFORMATION	ruk	SEU	TD	NU:	מסבנ.

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 653 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 358:

CCCAGTATTT	TTGTCCAAGC	ACGACCAGAA	AAGGATGATA	CAGATCTGGA	ATTGGCTCTC	60
TTAACCATCT	tTGAACAAA A	TCCTCAGGCT	CAGGTCACTA	TTTTCGGTGC	CTTGGGTGGC	120
CGTATTGACC	ATATGTTGGC	CAATGTCTTT	CTGCCTAGCA	ATCCTAAGTT	GGCACCCTAT	180
ATGCATCAAA	TAGAAATTGA	GGATGGGCAA	AACTTGATTA	CTTATTGTCC	AGAAGGAATC	240
AGTCAGCTAG	AACCTCGTTC	AGACTACGAC	TATCTAGCCT	TTATGCCAGT	TCGGGATAGC	300
CAAGTATGAG	TTGACAGAGG	TTTTTTAAAA	СТТТАААААА	GTGTACGCTT	CTAACGAATA	360
TATAGATAGG	GAAGTGTCGG	TAACTTGCCC	AGATGGTTAT	GTGGTCGTAC	TGCATAGCAA	420
GGACAGGAGG	TAGGATGGAA	AGTTTACTTA	TTCTATTATT	AATTGCCAAT	CTAGCTGGTC	480
TCTTTCTGAT	TTGGCAAAGG	CAGGATAGGC	AGGAGAAACA	CTTAAGTAAG	AGCTTGGAGG	540
ATCAGGCAGA	TCATTTGTCA	GACCAGCTGG	ATTACCGCTT	TGACCAAGCC	AGACAAGCCA	600
GCCAGTTAGA	CCAAAAAGAT	TTGGAAGTGG	TTGTCAGCGA	CCGTTTGCAA	GAA	653

(2) INFORMATION FOR SEQ ID NO: 359:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 641 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 359:

CACCATGTGA	TGTGACGCTG	GCCACAGCTG	TCAGAAATCT	GGCGAGCCAT	CGTGTGCAAT	60
GACTCTTCCC	GATGTAATCT	TGTTCATAGT	CCTTTGATGA	ATATGTTCAA	GCTGTAGAAG	120
GTGCGCTTCC	TGAACACTTA	TCAACTGTTA	CAGGCGAGTT	GACCAGTCAG	GAAACAGATG	180
GCTGGTACAC	ACTTGCCAAC	ACTTCTTCAT	CCCGCATTTA	CCTAAAACAA	GCCTTCCAAG	240
AAAATAGCAA	CCTCCTAGAG	CAAGTGGTAG	AACCCTTGAC	TATTATCACT	GGTGGACACA	300
ACCACAAGGA	CCAGTTGACC	TATGCTTGGA	AAACACTTTT	GCAGAATGCG	CCACATGATA	360
GTATCTGTGG	CTGTAGCGTG	GACGAAGTTC	ACCGCGAGAT	GGAAACGCGT	TTTGCCAAGG	420

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TCAACCAAGT	AGGAAACTTT	GTTAAAAGTA	ACTTGCTCAA	CGAGTGGAAG	GGTAAAATTG	480
CTACGGATAA	GGCTCAAAGT	GACTATCTCT	TTACTGTCAT	TAACACAGGC	TTGCATGATA	540
AGGTCGATAC	TGTCAGCACA	GTGATTGATG	TGGCGACTTG	TGATTTCAAG	GAATTGCACC	600
CAACAGAAGG	CTACAAAAAG	ATGGCTGCTC	TTATCTTGCC	G		641

(2) INFORMATION FOR SEQ ID NO: 360:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1958 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 360:

CCTCAAGGCC	AATTTGAAGG	СТСТААААСА	ATGGAAAAGT	GCTACACAGA	TGTGACAGAA	60
TTTGCCATTC	CAGCAAGTAC	TCAAAAGCTT	TACTTATCAC	CAGTTTTAGA	TGGCTTTAAT	120
AGCGAAATTA	TTGCTTTTAA	TCTTTCGACT	TCACCCAACT	TAGAACAAGT	ACAAACAATG	180
TTAGAACAGG	CATTCAAAGA	GAAGCACTAC	GAGAATACGA	TTCTCCATAG	TGACCAAGGC	240
TGGCAATATC	AACACGATTC	TTATCATCGG	TTCCTAGAGA	GTAAGGGAAT	TCAAGCATCT	300
ATGTCACGCA	AGGGCAACAG	CCAAGACAAC	GGTATGATGG	AATCTTTCTT	TGGCATTTTA	360
AAATCCGAAA	TGTTTTATGG	CTATGAGAAA	ACATTTAAAT	CACTTAACCA	ATTGGAACAA	420
GCCATTATAG	ACTATATTGA	TTACTACAAC	AACAAACGAA	TTAAGGTAAA	ACTAAAAGGA	480
CTTAGTCCTG	TGCAGTACAG	AACTAAATCC	TTTGGATAAA	TTAATTGTCT	AACTTTTTGG	540
GGTCAGTACA	AAACTCTTGC	TACTATGCGT	TTTATTATTG	AAAGACTTAT	TGGACTTTCT	600
CTCAAATCGA	GTTTTTACTC	AATTTTCTTA	CTTGATTGGG	ATTGAAATTC	CAATTAATTT	660
CTCTGAGTAG	AGTGTCTTGA	TATTGGCTTC	ATCAACAGAG	GCCTTATCAA	TTTTACGTTT	720
CAAGAAAAAT	TCTTGAATGG	TTTCGATTTC	AGGCTCACGA	ATAGCACGGT	GTTTGTTTGA	780
GATGAGGATT	TCATAGTGAA	GCGGAGCTTG	GGTAAAAATA	ACATCTGTAT	TCCCTGCAGA	840
ATAAACCTCA	ACAAGGGTTG	CATCGGTACT	TTCTAGCTGA	CTTTTTACAA	GTTGCGAGTG	900
TGAGTTTGTC	GTATTGATAA	GCTTCATAAT	ATTTCCTCCG	ATTTTCTAAT	TCTATTATAG	960
CACTTTTTGA	ATAAAGTCGC	TTGATTTATA	CTCAATGAAA	ATCAAAGAGC	AAACTAGGAA	1020
GCTAGCCGCA	GGCTATACTT	GAGTACGGTA	AGGCGACGCT	GACGTGGTTT	GAATTTTATT	1080
TTCGAAGAGT	ATTAGCCAAT	CTTATGCTGT	TTTTTCCAAG	ATTCAATGGC	CCATTTATGG	1140

		•	1374			
CTACCACGTT	TAAGGTTTTT	GATAGCCTCG	TCAATAGGGA	ACCAGGCAAT	ATGATTAAAG	1200
TTTTCTAGTG	GCTTTTGTAC	TTCTTTGAAA	GGAGTTGCTT	CATAGAGGTA	GGCAGGATTG	1260
TAGTAGTAGG	TATCACGATG	ACGAGAATAG	AAATATTCGT	CAGCTTGTCC	GTAATAGGTA	1320
CCAATTTCTG	CTGTGAAACC	AAGCTCTTCA	ATCAACTCAT	GCTTTAGGGC	TTCCTGATGA	1380
TTTTCACCTG	CTTCAATTTC	TCCACATGGT	AGGAACCAAG	CACCATTTGG	TTCTTGAACA	1440
AGAACAATTT	GTTTTTGTTC	AGGATTAGGG	ATAACTGCAT	ATACGCCATA	GCGAGCAATA	1500
TAGTCTGTAT	TCACTTTTTT	TCTCCGAAAG	TTGGGTTTGC	CATTGCATTT	TCCTCATTAT	1560
CTAGTATCGT	TATTATTATA	GTGAAATGAA	CCAAAAATAG	TACACAATGT	GGTATAATCT	1620
TCTTATGGCA	TATTCAATAG	ATTTTCGTAA	AAAAGTTCTC	TCTTATTGTG	AGCGAACAGG	1680
TAGTATAACA	GAAGCATCAC	ACGTTTTCCA	AATCTCACGT	AATACCATTT	ATGGCTGGTT	1740
AAAGCTAAAA	GAGAAAACAG	GAGAGCTAAA	CCACCAAGTA	AAAGGAATAA	AACCAAGAAA	1800
GGTTGATAGA	GATAGACTTA	ААААСТАТСТ	TACTGACAAT	CCAGACGCTT	ATTTGACTGA	1860
AATAGCTTCT	GAATTTGGCT	GTCATCCAAC	TACCATCCAC	TATGCGCTCA	AAGCTATGGG	1920
tacactcgaa	AAAAAAAAGA	ACTACACCTA	CTATGAAC			1958
(2) INFORM	ATION FOR SE	Q ID NO: 36	51:			

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 851 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 361:

TATGAAATTA AGTTATGATG ATAAAGTTCA GATCTATGAA CTTAGAAAAC AAGGATATAG 60 CTTAGAGAAG CTTTCAAATA AATTTGGGAT AMACAATTCT AATCTTAGGT ATATGATTAA 120 ATTGATTGAT CGTTACGGAA TAGAGTTCGT CAAAAAAGGA AAAAATCGTT ACTATTCTCC 180 TGATTTAAAA CAAGAAATGA TTAATAAAGT CTGACATGAA GGCTGGACTA AAGATAGAGT 240 TTCTCTTGAA TACGGTCTCC CAAGTCGTAC GATACTTCTT AACTGGCTAG CACAATACAG 300 GAAAAACGGG TATACTATTG TTGAGAAACC AAGAGGGAGA GTACCTGAGA GCGGAGAATG 360 CCATCCTAAA AAAGTTAAGA GAACTCCGAT TGAAGGAGGA AAAAGAGAAA GAAGAAAGAC 420 AGAAATTGTT TAAGAATTAA TGACTGAGTT TTCGTTAGAT CTTCTTTTAA AAGTCATTAA 480 ACTAGCTCGT TCGACCTACT ACTATCACTT GAAACAGCTA GATAAACCAG ATAAGGACCA 540 AGAGCTTAAA GCTGAAATTC AATCCATTTT TATCGAACAC AAAGGAAATT ATGCTTATCG

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TCGGATTTAT	TTAGAACTAA	GAAATCGTGG	TTATCTGGTA	AATCATAAAA	GAGTTCAAGG	660
CTTGATGAAA	GTACTCAATt	TACAAGCTAA	AACGCGACAG	AAACGAAAAT	ATTCTTCTCA	720
TAAAGGAGAC	GTTGGCAAGA	AGGCAGAGAA	TCTCATTCAA	GGCCAATTTG	AAGGCTCTAA	780
AACAATGGAA	CAGTGCTACA	CAGATGTGAC	AGAATTTGCC	ATTCCAGTAA	GTACTTAAAA	840
GCTTTACTTA	T			•		851

(2) INFORMATION FOR SEQ ID NO: 362:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1168 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 362:

GGGTAGAATC	GATATCTCCA	ATGAGTTGGT	tTAGCTGGTG	AAACTGTAAA	AAGATTTCGw	60
CCAATTCAAG	GTTGAGGCAT	CGCAAACTAT	GGACTGTTTC	CTCGTCAGTT	CTGGAAAGAA	120
AACGGGATAA	GGTTGGCTGT	GAAGCAAGCT	GCCCTCCTTC	CAACAATTTT	GGAAAGTAGG	, 180
CATCAGCTGA	CAATTCTTTA	CAAGCATAGT	CCGTTCCATA	ACCTGTTAAC	AGTTGAAAGA	240
GGAACTGGAC	AAGGATATCT	GAATCCGAAT	AACGACAGTA	GCGGCGTTGG	TCATTCGTTA	300
CTAAATACTT	AGAAATCCGC	TCTTTTAGTT	TCAACTGGGA	AAAAAGTTCC	TGAAAAAAGA	360
TAAGACCACC	ATACTGGGTT	AAATGACCTC	CATCGAAAGA	TAGTTGGTAA	AAAGACTTGT	420
TTTGGAAGTG	ATGATTTGGT	AAACTGTTCA	TGTGAGTTTC	CTTTCTTTTT	GTGTTTTTT	480
CTACACTTAT	ACCATAAAGG	GGAAACTCTT	TTTTGTCTAG	TAAAAAACAC	CCATTGGGTG	540
AAAAAAGAAA	CCATCCAGGA	TCTAAGCTAA	GGCAAGGATT	CTGGATGGTT	TTTAGATTTG	600
GGGTGAATAA	TTGGGGTTTT	AGCTGCTTGC	GGCCAATCAG	GTTCAGATAC	AAAAACTTAC	660
TCATCAACCT	TTAGTGGAAA	TCCAACTACA	TTTAACTATC	TATTAGACTA	TTACGCTGAT	720
AATATAGTCA	ATTGAAACAA	GAACAAGACA	AAAGAGCCTC	ATAAAAGGTA	TTGCAACTTG	780
GTAATACCTT	TTTGAGGTGC	TTTTTGATAT	GAGCCCATGT	TTTCTCAATA	GGATTGTACT	840
CAGGTGAGTA	GGGAGGAAGA	GGTAAAAGTT	TATACCCAAA	CTCTTCACAC	AAGAGTTCTA	900
ACTTACCCAT	TCTATGGAAT	CTTGCATTAT	ССАТААТААТ	AACCGATGGT	GTGTTTAATG	960
TTGGTAAGAG	AAATTTCTGA	AACCAAGCTT	CAAAAAAGTC	GCTCGTCATC	GTCTCTTCGT	1020
AAGTTATTGG	AGCGATTAAC	TCACCATTTG	TTAGACCTGC	AACCAAAGAA	ATCCTCTGAT	1080

ATCTTCTTCC AGATACTTTG CCTCTTCTTA ACTGACCTTT TAATGAGCGA CCATATTC	TC 1140
GATAAAAATA AGTATCGAAT CCTGTTTC	1168
(2) INFORMATION FOR SEQ ID NO: 363:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 4483 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 363:	
GTCAGCTTCA GCAAGCCCAT CAGCTTCTGA ATCTGCATCA ACCAGTGCGT CCGCTTCA	AGC 60
GTCAACCAGT GCGTCGGCTT CAGCGTCGAC AAGTGCTTCG GCTTCAGCAT CAACGAGT	NGC 120
GTCGGCCTCA GCAAGCGCAA GTACCTCAGC GTCAGCTTCC GCCTCAACCA GTGCGTCC	GC 180
TTCAGCAAGC ACAAGTGCGT CAGCCTCAGC AAGTATCTCA GCGTCTGAAT CGGCATCA	AC 240
GAGTGCGTCT GAGTCAGCAT CAACGAGTAC GTCAGCCTCA GCAAGCACAT CAGCTTCT	GA 300
ATCTGCATCA ACCAGTGCGT CAGCCTCAGC ATCGACAAGC GCCTCAGCTT CAGCAAGT	PAC 360
CAGTGCTTCA GCCTCAGCGT CGACAAGTGC GTCGGCCTCA ACCAGTGCAT CTGAATCG	GC 420
ATCAACCAGT GCGTCAGCCT CAGCAAGTAC TAGTGCATCA GCTTCAGCAT CAACGAGT	CGC 480
ATCGGCTTCA GCATCAACCA GTGCCTCGGC TTCAGCGTCA ACCAGTGCGT CAGCTTCA	AGC 540
AAGTACCAGT GCTTCAGTCT CAGCATCAAC AAGTGCTTCA GCCTCAGCAT CGACAAGT	rGC 600
CTCGGCTTCA GCAAGCACAT CAGCATCTGA ATCAGCGTCG ACAAGCGCCT CAGCTTCA	.GC 660
AAGTACCAGT GCGTCAGCCT CAGCGTCGAC AAGTGCGTCA GCCTCAGCAA GTACTAGT	eGC 720
ATCAGCTTCA GCATCAACGA GTGCATCGGC TTCGGCGTCA ACCAGTGCAT CAGAGTCA	GC 780
AAGTACCAGT GCGTCAGCTT CCGCATCAAC AAGTGCCTCG GCTTCAGCAA GCACCAGT	GC 840
GTCGGCTTCA GCAAGTACTA GCGCCTCAGC CTCAGCCTCA ACCAGTGCGT CAGCCTCA	GC 900
AAGTATCTCA GCGTCTGAAT CGGCATCAAC GAGTGCGTCC GCTTCAGCAA GTACTAGC	eGC960
CTCAGCCTCA GCGTCAACAA GTGCATCGGC TTCAGCGTCA ACGAGTGCGT CTGAATCG	GC 1020
ATCAACGAGT GCGTCCGCTT CAGCAAGTAC TAGCGCCTCA GCCTCAGCGT CAACAAGT	GC 1080
ATCGGCTTCA GCATCAACGA GTGCGTCCGC TTCAGCAAGT ACTAGCGCCT CAGCCTCA	GC 1140
GTCAACAAGT GCATCGGCTT CAGCGTCAAC GAGTGCGTCT GAGTCAGCAT CAACGAGT	GC 1200
GTCAGCCTCA GCAAGCACAT CAGCTTCTGA ATCTGCATCA ACCACTTCCT CA-CCTTCA	00 1060

ATCGACAAGC GCCTCAGCTT CAGCAAGTAC CAGTGCGTCA GCTCAGCGTC GACAAGTGCs

TCrGCTTCAG	CAAGTACCAG	TGCGTCAGCC	TCAGCAAGTA	CCAGTGCkTC	AGCCTCAGCG	1380
TCGACAAGTG	CGTCGGCCTC	AACCAGTGCA	TCTGAATCGG	CATCAACCAG	TGCGTCAGCC	1440
TCAGCAAGTA	CTAGCGCCTC	AGCCTCAGCA	TCAACGAGTG	CGTCCGCTTC	AGCAAGTACT	1500
AGTGCATCAG	CTTCAGCAAG	TACTAGCGCC	TCAGCCTCAG	CGTCGACAAG	CGCCTCAGCT	1560
TCAGCAAGTA	CCAGTGCGTC	AGCCTCAGCG	TCGACAAGTG	CGTCGGCTTC	AGCAAGTACC	1620
TCAGCGTCTG	AATCAGCATC	AACAAGTGCG	TCGGCTTCAG	CATCAACGAG	TGCATCAGCT	1680
TCAGCATCAA	CAAGTGCTTC	AGCTTCAGCA	AGTACCAGTG	CGTCGGCTTC	AGCATCAACG	1740
AGTGCTTCAG	TCTCAGCGTC	AACCAGTGCC	TCTGAATCCG	CATCAACAAG	TGCCTCGGCT	1800
TCAGCAAGCA	CCAGTGCTTC	GGCTTCAGCG	TCAACGAGTG	CGTCTGAGTC	AGCATCAACG	1860
AGTGCGTCAC	CTCAGCAAGC	ACATCAGCTT	CTGAATCTGC	ATCAACCAGT	GCGTCACTTC	1920
CGCATCAACA	AGCGCCTCGG	CCTCAGCAAG	TACAAGTGCT	TCAGCCTCAG	CATCAACCAG	1980
TGCATCAGCT	TCAGCCTCAA	CAAGTGCTTC	AGCCTCAGCG	TCAACCAGTG	CCTCGGCTTC	2040
AGCAAGTACC	AGTGCGTCAG	CTTCAGCAAG	CACAAGTGCG	TCAGCTTCAG	CATCAACCAG	2100
TGCTTCGGCT	TCGGCATCAA	CAAGTGCCTC	AGCATCAGCA	TCAACGAGTG	CGTCAsCTCA	2160
GCAAGTACTA	GTGCATCAGC	ATCAGCATCA	ACCAGTGCAT	CAGCCTCAGC	AAGTATCTCA	2220
GCGTCTGAAT	CGGCATCAAC	GAGTGCATCA	GCATCAGCAT	CAACGAGTGC	ATCGGCTTCA	2280
GCGTCAACCA	GTGCATCAGT	CTCAGCAAGC	ACCAGTGCGT	CGGCTTCAGC	ATCAACCAGT	2340
GCCTCAGCCT	CAGCAAGTAT	CTCAGCGTCT	GAATCGCCAT	CAACGAGTGC	GTCAGcCTCA	2400
GCAAGTACTA	GTGCATCAGC	ATCAGCATCA	ACGAGTGCAT	CGGCTTCAGC	AAGTACCAGC	2460
GCCTCAGCTT	CAGCAAGCAC	CAGTGCGTCA	GCCTCAGCAA	GTACCAGCGC	CTCAGCCTCA	2520
GCAAGCACCA	GTGCCTCAGC	TTCAGCAAGT	ACCAGTGCGT	CAGCCTCAGC	GTCGACAAGT	2580
GCGTCGGCTT	CAGCAAGTAC	CTCAGCGTCT	GAATCAGCAT	CAACGAGTGC	ATCAGCTTCA	2640
GCATCAACAA	GTGCTTCAGC	TTCAGCAAGT	ACCAGTGCGT	CGGCTTCAGC	ATCAACGAGT	2700
GCTTCAGTCT	CAGCGTCAAC	CAGTGCCTCT	GAATCAGCAT	CAACAAGTGC	CTCGGCTTCA	2760
GCAAGCACCA	GTGCGTCGGC	TTCAGCAAGT	ACTAGTGCAT	CGGCTTCAGC	ATCGACAAGT	2820
GCGTCTGAAT	CGGCATCAAC	GAGTGCTTCG	GCTTCAGCAT	CAACGAGTGC	GTCAGCCTCA	2880
GCAAGCACAT	CAGCTTCTGA	ATCTGCATCA	ACCAGTGCGT	CCGCTTCAGC	GTCAACCAGT	2940
GCGTCGGCTT	CAGCGTCGAC	AAGTGCTTCG	GCTTCAGCAT	CAACGAGTGC	GTCGGCCTCA	3000
GCAAGCGCAA	GTACCTCAGC	GTCAGCTTCC	GCCTCAACCA	GTGCGTCCGC	TTCAGCAAGC	3060

			1170			
ACAAGTGCGT	CAGCCTCAGC	AAGTATCTCA	1378 GCGTCTGAAT	CGGCATCAAC	GAGTGCGTCG	3120
GCCTCAGCAA	GCGCAAGTAC	CTCAGCGTCA	GCTTCCGCCT	CAACCAGTGC	GTCGGCTTCA	3180
GCAAGCACAA	GTGCGTCAGC	CTCAGCAAGT	ATCTCAGCGT	CTGAATCGGC	ATCAACGAGT	3240
GCGTCTGAGT	CAGCATCAAC	GAGTACGTCA	GCCTCAGCAA	GCACATCAGC	TTCTGAATCG	3300
GCATCAACCA	GTGCGTCAGC	CTCAGCATCG	ACAAGCGCCT	CAGCTTCAGC	AAGTACCAGT	3360
GCTTCAGCCT	CAGCGTCGAC	AAGTGCGTCG	GCCTCAACCA	GTGCATCTGA	ATCGGCATCA	3420
ACCAGTGCGT	CAGCCTCAGC	AAGTACTAGT	GCATCAGCTT	CAGCATCAAC	GAGTGCATCG	3480
GCTTCAGCAT	CAACCAGTGC	CTCGGCTTCA	GCGTCAACCA	GTGCGTCAGC	TTCAGCAAGT	3540
ACCAGTGCTT	CAGTCTCAGC	ATCAACAAGT	GCTTCAGCCT	CAGCATCGAC	AAGTGCCTCG	3600
GCTTCAGCAA	GCACATCAGC	ATCTGAATCA	GCGTCGACAA	GCGCCTCAGC	TTCAGCAAGT	3660
ACCAGTGCGT	CAGCCTCAGC	GTCGACAAGT	GCGTCAGCCT	CAGCAAGTAC	TAGTGCATCA	3720
GCTTCAGCAT	CAACGAGTGC	ATCGGCTTCG	GCGTCAACCA	GTGCATCAGA	GTCAGCAAGT	3780
ACCAGTGCGT	CAGCTTCCGC	ATCAACAAGT	GCCTCGGCTT	CAGCAAGCAC	CAGTGCGTCG	3840
GCTTCAGCAA	GTACTAGCGC	CTCAGCCTCA	GCCTCAACCA	GTGCGTCAGC	CTCAGCAAGT	3900
ATCTCAGCGT	CTGAATCGGC	ATCAACGAGT	GCGTCCGCTT	CAGCAAGTAC	TAGCGCCTCA	3960
CCTCAGCGT	CAACAAGTGC	ATCGGCTTCA	GCGTCAACGA	GTGCGTCTGA	ATCGGCATCA	4020
ACGAGTGCGT	CCGCTTCAGC	AAGTACTAGC	GCCTCAGCCT	CAGCGTCAAC	AAGTGCATCG	4080
CTTCAGCAT	CAACGAGTGC	GTCCGCTTCA	GCAAGTACTA	GCGCCTCAGC	CTCAGCGTCA	4140
ACAAGTGCAT	CGGGTTCAGC	GTCAACGAGT	GCGTCTGAGT	CAGCATCAAC	GAGTGCGTCA	4200
CCTCAkCAAG	CACATCAGCT	TCTGAATCTG	CATCAACCAG	TGCGTCACTT	CCGCATCAAC	4260
AAGCGCCTCG	GCCTCAGCAA	GTACAAGTGC	TTCAGCCTCA	GCATCAACCA	GTGCATCAGC	4320
TCAGCCTCA	ACAAGTGCTT	CAGCCTCAGC	GTCAGACCAG	TGCCTCGGCT	TCAGCAAGTA	4380
CCAGTGCGTC	ACTTCAGCAA	GCACAAGTGC	GTCAGCTTCA	GCATCAACCA	GTGCTTCGCC	4440
TTCGGCATCA	ACAAGTGCCT	CAGCATCAGC	ATCAACGAGT	GCG		4483

(2) INFORMATION FOR SEQ ID NO: 364:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2550 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 364:

GTACCTCAGC	GTCCTTCCGC	CTCAACCAGT	GCGTCCGCTT	CAGCAAGCAC	AAGTGCGTCA	60
CCTCAGCAAG	TATCTCAGCG	TCTGAATCGG	CATCAACGAG	TGCGTCGGCC	TCAGCAAGCG	120
CAAGTACCTC	AGCGTCACTT	CCGCCTCAAC	CAGTGCGTCG	GCTTCAGCAA	GCACAAGTGC	180
GTCAsCTCAG	CAAGTATCTC	AGCGTCTGAA	TCGGCATCAA	CGAGTGCGTC	TGAGTCAGCA	240
TCAACGAGTA	CGTCAGCCTC	AGCAAGCACA	TCAGCTTCTG	AATCGGCATC	AACCAGTGCG	300
TCAGCCTCAG	CATCGACAAG	CGCCTCAGCT	TCAGCAAGTA	CCAGTGCTTC	AGCCTCAGCG	360
TCGACAAGTG	CGTCGGCCTC	AACCAGTGCA	TCTGAATCGG	CATCAACCAG	TGCGTCAGCC	420
TCAGCAAGTA	CTAGTGCATC	AGCTTCAGCA	TCAACGAGTG	CATCGGCTTC	AGCATCAACC	480
AGTGCCTCGG	CTTCAGCGTC	AACCAGTGCG	TCAGCTTCAG	CAAGTACCAG	TGCTTCAGTC	540
TCAGCATCAA	CAAGTGCTTC	AGCCTCAGCA	TCGACAAGTG	CCTCGGCTTC	AGCAAGCACA	600
TCAGCATCTG	AATCAGCGTC	GACAAGTGCG	TCGGCCTCAA	CCAGTGCATC	TGAATCGGCA	660
TCAACCAGTG	CGTCAGCCTC	AGCAAGTACT	AGTGCATCAG	CTTCAGCATC	AACGAGTGCA	720
TCGGCTTCGG	CGTCAACCAG	TGCATCAGAG	TCAGCAAGTA	CCAGTGCGTC	AGCTTCCGCA	780
TCAACAAGTG	CCTCGGCTTC	AGCAAGCACA	TCAGCATCTG	AATCAGCGTC	AACCAGTGCT	840
TCGGCTTCAG	CAAGTACCAG	TGCTTCAGCT	TCAGCATCAA	CCAGCGCCTC	GGCCTCAGCA	900
AGCACCTCAG	CTTCTGAATC	GGCCTCAACC	AGCGCCTCGG	CCTCAGCAAG	CACCTCAGCT	960
TCTGAATCGG	CCTCAACCAG	CGCCTCAGCC	TCAGCATCAA	CGAGTGCTTC	GGCTTCAGCA	1020
AGCACAAGCG	CCTCGGGTTC	AGCATCAACG	AGTACGTCAG	CTTCAGCGTC	AACCAGTGCT	1080
TCAGCCTCAG	CATCAACAAG	TGCGTCAGCC	TCAGCAAGTA	TCTCAGCGTC	TGAATCGGCA	1140
TCAACGAGTG	CGTCTGAGTC	AGCATCAACG	AGTACGTCAG	CCTCAGCAAG	CACAAGTGCT	1200
TCAGCCTCAG	CAAGTATCTC	AGCGTCTGAA	TCGGCATCAA	CGAGTGCGTC	CGCTTCAGCA	1260
AGTACTAGCG	CCTCAGCATC	AGCGTCAACA	AGTGCTTCGG	CTTCAGCGTC	AACGAGTGCG	1320
TCTGAGTCAG	CATCAACGAG	TACGTCAGCC	TCAGCAAGCA	CATCAGCTTC	TGAATCTGCA	1380
TCAACCAGTG	CGTCAGCCTC	AGCATCGACA	AGCGCCTCAG	CTTCAGCAAG	TACCAGTGCG	1440
TCAGCCTCAG	CAAGTACCAG	TGCTTCAGCC	TCAGCGTCGA	CAAGTGCGTC	GGCCTCAACC	1500
AGTGCATCTG	AATCGGCATC	AACCAGTGCG	TCAGCTCAGC	AAGTACTAGT	GCATCAGCTT	1560
CAGCATCAAC	GAGTGCATCG	GCTTCGGCGT	CAACCAGTGC	ATCAGAGTCA	GCAAGTACCA	1620
GTGCGTCACt	TCCGCATCAA	CAAGTGCCTC	GGCTTCAGCA	AGCACATCAG	CATCTGAATC	. 1680
AGCGTCAACC	AGTGCTTCGG	CTTCAGCAAG	TACCAGTGCT	TCAGCTTCAG	CATCAACCAG	1740

CGCCTCGGCC TCAC	CAAGCA CCTCAGG	1380 ግጥር ጥርልልጥርርር	CC TCAACCAGCG	CCTCCCCCTC	1000
					1800
AGCAAGCACC TCAC	CTTCTG AATCGGG	CTC AACCAGCG	CC TCAGCCTCAG	CATCAACGAG	1860
TGCTTCGGCT TCAC	GCAAGCA CAAGCGO	CTC GGGTTCAG	CA TCAACGAGTA	CGTCAGCTTC	1920
AGCGTCAACC AGTO	SCTTCAG CCTCAGO	ATC AACAAGTG	CG TCAGCCTCAG	CAAGTATCTC	1980
AGCGTCTGAA TCGC	GCATCAA CGAGTGO	GTC TGAGTCAG	CA TCAACGAGTA	CGTCAGCCTC	2040
AGCAAGCACC TCAC	SCTTCTG AATCGGC	CTC AACCAGTG	CG TCAGCCTCAG	CATCGACAAG	2100
CGCCTCAGCT TCAG	CAAGTA CCAGTGO	TTC AGCCTCAG	CG TCGACAAGTG	CCTCGCCCTC	2160
AACCAGTGCA TCTC	SAATCGG CATCAAC	CAG TGCGTCAG	CC TCAGCAAGTA	CTAGTGCATC	2220
GGCTTCAGCA TCAA	ACCAGTG CCTCGGC	TTC AGCGTCAA	CC AGTGCGTCAG	CTTCAGCAAG	2280
TACCAGTGCT TCAG	STCTCAG CATCAAC	AAG TGCTTCAG	CC TCAGCATCGA	CAAGTGCCTC	2340
GGCTTCAGCA AGCA	CATCAG CATCTGA	ATC AGCGTCGA	CA AGCGCCTCAG	CTTCAGCAAG	2400
TACCAGTGCG TCAG	CCTCAG CGTCGAC	AAG TGCGTCAG	CT ACAGCAAGTA	CTAGTGCATC	2460
AGCTTCAGCA TCAA	CGAGTG CATCGGC	TTC GGCGTCAA	CC AGTGCATCAG	AGTCAGCAAG	2520
TACCAGTGCG TCAG	TTCACG CATCAAC	AAG			2550
(2) INFORMATION	FOR SEQ ID NO	: 365:			
(i) SPOTEN	CE CUADACMEDIC	mr.co.			

- SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 1436 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 365:

ACCCAGCAAG	TACTAGTGCA	TCGGCTTCAG	CAAGCACCAG	TGCGTCGGCT	TCAGCATCAA	60
CCAGTGCCTC	AGCCTCAGCA	AGTATCTCAG	CGTCTGAATC	GGCATCAACG	AGTGCGTCAC	120
CTCAGCAAGT	ACTAGTGCAT	CAGCATCAGC	ATCAACGAGT	GCATCGGCTT	CAGCAAGTAC	180
CAGCGCCTCA	GCTTCAGCAA	GCACCAGTGC	GTCAsCTCAG	CAAGTACCAG	CGCCTCAGCC	240
TCAGCAAGCA	CCAGTGCCTC	AGCTTCAGCA	AGTACCAGTG	CGTCAGCCTC	AGCGTCGACA	300
AGTGCGTCGG	CTTCAGCAAG	TACCTCAGCG	TCTGAATCAG	CATCAACGAG	TGCATCAGCT	360
TCAGCATCAA	CAAGTGCTTC	AGCTTCAGCA	AGTATCTCAG	CGTCTGAATC	GGCATCAACG	420
AGTGCGTCCG	CTTCAGCAAG	TACTAGCGCC	TCAGCATCAG	CGTCAACAAG	TGCTTCGGCT	480
TCAGCGTCAA	CGAGTGCGTC	TGAGTCAGCA	TCAACGAGTA	CGTCAGCCTC	AGCAAGCACA	540
TCAGCTTCTG	AATCTGCATC	AACCAGTGCG	TCAGCCTCAG	CATCGACAAG	CGCCTCAGCT	600

1381

TCAGCAAGTA	CCAGTGCGTC	AgCCTCAGCA	AGTACCAGTG	CTTCAGCCTC	AGCGTCGACA	660
AGTGCGTCGG	CCTCAACCAG	TGCATCTGAA	TCGGCATCAA	CCAGTGCGTC	AGCCTCAGCA	720
AGTACTAGCG	CCTCAGCCTC	AGCATCAACG	AGTGCGTCCG	CTTCAGCAAG	TACTAGTGCA	780
TCAGCTTCAG	CAAGTACTAG	CGCCTCAGCC	TCAGCGTCGA	CAAGCGCCTC	AGCTTCAGCA	840
AGTACCAGTG	CGTCAGCCTC	AGCGTCGACA	AGTGCGTCGG	CTTCAGCAAG	TACCTCAGCG	900
TCTGAATCAG	CATCAACAAG	TGCGTCGGCT	TCAGCATCAA	CGAGTGCATC	AGCTTCAGCA	960
TCAACAAGTG	CTTCAGCTTC	AGCAAGTACC	AGTGCGTCGG	CTTCAGCATC	AACGAGTGCT	1020
TCAGTCTCAG	CGTCAACCAG	TGCCTCTGAA	TCCGCATCAA	CAAGTGCCTC	GÇCTTCAGCA	1080
AGCACCAGTG	CTTCGGCTTC	AGCGTCAACG	AGTGCGTCTG	AGTCAGCATC	AACGAGTGCG	1140
TCAGCCTCAG	CAAGCACATC	AGCTTCTGAA	TCTGCATCAA	CCAGTGCGTC	AGCTTCCGCA	1200
TCAACAAGCG	CCTCGGCCTC	AGCAAGTACA	AGTGCTTCAG	CCTCAGCATC	AACCAGTGCA	1260
TCAGCTTCAG	CCTCAACAAG	TGCTTCAGCC	TCAGCGTCAA	CCAGTGCCTC	GGCTTCAGCA	1320
AGTACCAGTG	CGTCAGCTTC	AGCAAGCACA	AGTGCGTCAG	CTTCAGCATC	AACCAGTGCT	1380
TCGGCTTCGG	CATCAACAAG	TGCCTCAGCA	TCAGCATCAA	CGAGTGCGTC	AGCCGG	1436
(2) THEODM	ATTON DOD CE	O TO NO. 26	· .			

(2) INFORMATION FOR SEQ ID NO: 366:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 735 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 366:

GCAGTTGCCA	CACCGTGCTG	ACCAGCACCC	GTTCCTGCGA	TAATTTTCTT	TTTACCCATG	60
CGTWTGGCAA	GCCAAACTTG	TCCTAAGGCA	TTGTTAATCT	TGTGGGCTCC	TGTATGGTTA	120
AGGTCTTCCC	GTTTGAGATA	AATCTTGCTC	CGCCAATATG	CTGGGTCAAG	TTTTTTGCGT	180
AATAAAGAGG	AGTTTCACGT	CCTACGTACT	GGCGCAAAAG	CTGGTTTAAT	TCCTCTTGGA	240
AACTTGGGTC	TGCCTGACTT	TCACGGTAGG	CCTTCTCCAA	CTCCAAAACT	GCTGTCATCA	300
ATGTTTCTGG	GACAAAACGT	CCGCCGAATT	TTCCGTAAAA	TCCATCTTTA	TTTGGTTCCT	360
GATATGCCAT	GCTTTACCCT	CTCTATAAAT	CTTCTAATCT	TTTCATGATC	TTTTTGTCCA	420
TCTGTCTCCA	CTCCGCTCGA	TACATCTACT	GCATAGGGAG	TAAAGTGTTG	AATTGCTTTT	480
ACTACATTAT	CTTCATTAAG	GCCACCTGCG	ATAAAGAAGG	GCTGTGCTAG	TCCAGTCGTA	540

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TCCAGTTGAC CCCAATCAAA GGGCTGGCCA CTTCCTGCCA CAGGGGCATC AAAGAGTAGA	600
TAATCTGCCT GAGAATTGGG GACATGCCCA TTTCCATCTA CCTGCACAGC CTGAATACTG	660
GCACAAGGCA AATTCTCAAA TAAATCATCT GCCACCTGAC CGTGAACTTG AACCAAGTCC	720
AAGCCGGGGA TCCTC	735
(2) INFORMATION FOR SEQ ID NO: 367:	•
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1702 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 367:	
TACTAGCGCC TCAGCCTCAG CGTCAACAAG TGCATCGGCT TCAGCATCAA CGAGTGCGTC	60
CGCTTCAGCA AGTACTAGCG CCTCAGCCTC AGCGTCAACA AGTGCATCGG CTTCAGCGTC	120
AACGAGTGCG TCTGAGTCAG CATCAACGAG TGCGTCAGCC TCAGCAAGCA CATCAGCTTC	180
TGAATCTGCA TCAACCAGTG CGTCAGCCTC AGCATCGACA AGCGCCTCAG CTTCAGCAAG	240
TACCAGTGCG TCAGCCTCAG CGTCGACAAG TGCGTCGGCT TCAGCAAGTA CCAGTGCGTC	300
AGCCTCAGCA AGTACCAGTG CGTCAGCCTC AGCGTCGACA AGTGCGTCGG CCTCAACCAG	360
TGCATCTGAA TCGGCATCAA CCAGTGCGTC AGCCTCAGCA AGTACTAGTG CATCAGCTTC	420
AGCATCAACG AGTGCATCGG CTTCAGCATC AACCAGTGCA TCAGAGTCAG CAAGTACCAG	480
TGCGTCAGCT TCCGCATCAA CAAGTGCCTC GGCTTCAGCA AGTACTAGCG CCTCAGCCTC	540
AGCGTCAACA AGTGCTTCAG CTTCCGCGTC AACCAGCGCC TCGGCCTCAG CAAGTATCTC	600
AGCGTCTGAA TCGGCATCAA CAAGTGCCTC GGCTTCAGCA TCAACGAGTG CATCAGTCTC	660
AGCAAGCACC AGTGCGTCGG CCTCAGCAAG CACCAGCGCG TCTGAATCCG CATCAACCAG	720

TGCCTCAGCT TCAGCAAGTA CCTCAGCATC TGAATCAGCA TCAACAAGTG CATCGGCTTC

AGCAAGCACA AGTGCTTCAG CCTCAGCAAG TATCTCAGCG TCTGAATCGG CATCAACGAG

TGCGTCCGCT TCAGCAAGTA CTAGCGCCTC AGCATCAGCG TCAACAAGTG CTTCGGCTTC

AGCGTCAACG AGTGCGTCTG AGTCAGCATC AACGAGTACG TCAGCCTCAG CAAGCACATC

AGCTTCTGAA TCTGCATCAA CCAGTGCGTC AGCCTCAGCA TCGACAAGCG CCTCAGCTTC

AGCAAGTACC AGTGCGTCAG CCTCAGCAAG TACCAGTGCT TCAGCCTCAG CGTCGACAAG

TGCGTCGGCC TCAACCAGTG CATCTGAATC GGCATCAACC AGTGCGTCAG CCTCAGCAAG

TACTAGCGCC TCAGCCTCAG CATCAACGAG TGCGTCCGCT TCAGCAAGTA CTAGTGCATC

780

840

900

960

1020

1080

1140

1383

AGCATCAGCA	TCAACGAGTG	CATCGGCTTC	AGCAAGTACC	AGCGCCTCAG	CTTCAGCAAG	1260
CACCAGTGCG	TCAGCCTCAG	CAAGTACCAG	CGCCTCAGCC	TCAGCAAGCA	CCAGTGCCTC	1320
AGCTTCAGCA	AGTACCAGTG	CGTCAGCCTC	AGCGTCGACA	AGTGCGTCGG	CTTCAGCAAG	1380
TACCTCAGCG	TCTGAATCAG	CATCAACGAG	TGCATCAGCT	TCAGCATCAA	CAAGTGCTTC	1440
AGCTTCAGCA	AGTACCAGTG	CGTCGGCTTC	AGCATCAACG	AGTGCTTCAG	TCTCAGCGTC	1500
AACCAGTGCC	TCTGAATCAG	CATCAACAAG	TGCCTCGGCT	TCAGCAAGCA	CCAGTGCGTC	1560
GGCTTCAGCA	AGTACTAGTG	CATCGGCTTC	AGCATCGACA	AGTGCGTCTG	AATCGGCATC	1620
AACGAGTGCT	TCGGCTTCAG	CATCAACGAG	TGCGTCAGCC	TCAGCAAGCA	CATCAGCTTC	1680
TGAATCTGCA	TCAACCAGTG	CG				1702

(2) INFORMATION FOR SEQ ID NO: 368:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 941 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 368:

ACCAG	TGCAT	CAGCTTCAGC	CTCAACAAGT	GCTTCAGCCT	CAGCGTCAAC	CAGTGCCTCG	60
GCTTC	AGCAA	GTACCAGTGC	GTCACTTCAG	CAAGCACAAG	TGCGTCACTT	CAGCATCAAC	120
CAGTG	CTTCG	GCTTCGGCAT	CAACAAGTGC	CTCAGCATCA	GCATCAACGA	GTGCGTCACC	180
TCAGC	AAGTA	CTAGTGCATC	AGCATCAGCA	TCAACCAGTG	CATCAGCCTC	AGCAAGTATC	240
TCAGC	GTCTG	AATCGGCATC	AACGAGTGCA	TCAGCATCAG	CATCAACGAG	TGCATCGGCT	300
TCAGO	GTCAA	CCAGTGCATC	AGTCTCAGCA	AGCACCAGTG	CGTCGGCTTC	AGCATCAACG	360
AGTGC	CTCAG	CCTCAGCAAG	TATCTCAGCG	TCTGAATCGG	CATCAACGAG	TGCGTCAGCC	420
TCAGC	AAGTA	CTAGTGCATC	GGCTTCAGCA	AGCACCAGTG	CGTCGGCTTC	AGCATCAACC	480
AGTGC	CTCAG	CCTCAGCAAG	TATCTCAGCG	TCTGAATCGG	CATCAACGAG	TGCGTCAGCC	540
TCAGC	AAGTA	CTAGTGCATC	AGCATCAGCA	TCAACGAGTG	CATCGGCTTC	AGCAAGTACC	600
AGCGC	CTCAG	CTTCAGCAAG	CACCAGTGCG	TCAGCCTCAG	CAAGTACCAG	CGCCTCAGCC	660
TCAGC	AAGCA	CCAGTGCCTC	AGCTTCAGCA	AGTACCAGTG	CGTCAGCCTC	AGCGTCGACA	720
AGTGC	GTCGG	CTTCAGCAAG	TACCTCAGCG	TCTGAATCAG	CATCAACGAG	TGCATCAGCT	780
TCAGC	ATCAA	CAAGTGCTTC	AGCTTCAGCA	AGTACCAGTG	CGTCGGCTTC	AGCATCAACG	840

1384	
AGTGCTTCAG TCTCAGCGTC AACCAGTGCC TCTGAATCAG CATCAACAAG TGCCTCGGCT	900
TCAGCAAGCA CCAGTGCGTC GGCTTCAGCA AGTACTAGTG C	941
(2) INFORMATION FOR SEQ ID NO: 369:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 869 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 369:	
CAGCAAGTAC TAGTGCATCA GCTTCAGCAT CAACGAGTGC ATCGGCTTCT GCGTCAACCA	60
GTGCATCAGA GTCAGCAAGT ACCAGTGCGT CAGCTTCCGC ATCAACAAGT GCCTCGGCTT	120
CAGCAAGCAC CAGTGCGTCG GCTTCAGCAA GTACTAGCGC CTCAGCCTCA GCCTCAACCA	180
GTGCGTCAGC CTCAGCAAGT ATCTCAGCGT CTGAATCGGC ATCAACGAGT GCGTCCGCTT	240
CAGCAAGTAC TAGCGCCTCA GCCTCAGCGT CAACAAGTGC ATCGGCTTCA GCGTCAACGA	300
GTGCGTCTGA ATCGGCATCA ACGAGTGCGT CCGCTTCAGC AAGTACTAGC GCCTCAGCCT	360
CAGCGTCAAC AAGTGCATCG GCTTCAGCAT CAACGAGTGC GTCCGCTTCA GCAAGTACTA	. 420
GCGCCTCAGC CTCAGCGTCA ACAAGTGCAT CGGCTTCAGC GTCAACGAGT GCGTCTGAGT	480
CAGCATCAAC GAGTGCGTCA GCCTCAGCAA GCACATCAGC TTCTGAATCT GCATCAACCA	540
GTGCGTCAGC CTCAGCATCG ACAAGCGCCT CAGCTTCAGC AAGTACCAGT GCGTCAGCCT	600
CAGCGTCGAC AAGTGCGTCG GCTTCAGCAA GTACCAGTGC GTCAGCCTCA GCAAGTACCA	660
GTGCGTCAGC CTCAGCGTCG ACAAGTGCGT CGGCCTCAAC CAGTGCATCT GAATCGGCAT	720
CAACCAGTGC GTCAGCCTCA GCAAGTACTA GTGCATCAGC TTCAGCATCA ACGAGTGCAT	780
CGGCTTCAGC ATCAACCAGT GCATCAGAGT CAGCAAGTAC CAGTGCGTCA GNTTCCGCAT	840
GCAACAAGTG CCTCGGCTTC AGCAAGTAC	869
(2) INFORMATION FOR SEQ ID NO: 370:	

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 750 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 370:

TCAACAAGTG CCTCAGCATC AGCATCAACG AGTGCGTCAG CCTCAGCAAG TACTAGTGCA

PCT/US97/19588 WO 98/18931

1385

TCA	GCATCAG	CATCAACCAG	TGCATCAGCC	TCAGCAAGTA	TCTCAGCGTC	TGAATCGGCA	120
TCA	ACGAGTG	CATCAGCATC	AGCATCAACG	AGTGCATCGG	CTTCAGCGTC	AACCAGTGCA	180
TCA	GTCTCAG	CAAGCACCAG	TGCGTCGGCT	TCAGCATCAA	CGAGTGCCTC	AGCCTCAGCA	240
AGT	ATCTCAG	CGTCTGAATC	GGCATCAACG	AGTGCGTCAG	CCTCAGCAAG	TACTAGTGCA	300
TCG	GCTTCAG	CAAGCACCAG	TGCGTCGGCT	TCAGCATCAA	CCAGTGCCTC	AGCCTCAGCA	360
AGT	ATCTCAG	CGTCTGAATC	GGCATCAACG	AGTGCGTCAG	CCTCAGCAAG	TACTAGTGCA	420
TCA	GCATCAG	CATCAACGAG	TGCATCGGCT	TCAGCAAGTA	CCAGCGCCTC	AGCTTCAGCA	480
AGC	ACCAGTG	CGTCAGCCTC	AGCAAGTACC	AGCGCCTCAG	CCTCAGCAAG	CACCAGTGCC	540
TCA	GCTTCAG	CAAGTACCAG	TGCGTCAGCC	TCAGCGTCGA	CAAGTGCGTC	GGCTTCAGCA	600
AGT	ACCTCAG	CGTCTGAATC	AGCATCAACG	AGTGCATCAG	CTTCAGCATC	AACAAGTGCT	660
TCA	GCTTCAG	CAAGTATCTC	AGCGTCTGAA	TCGGCATCAA	CGAGTGCGTC	CGCTTCAGCA	720
AGT	'ACTAGCG	CCTCAGCATC	AGCGTCAACG				750

(2) INFORMATION FOR SEQ ID NO: 371:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 957 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 371:

CCGGAAAACA	GCTCTGGCGC	TTGGTCTTGC	CCAGCGTATT	GCTAGTGGTG	ACGTGCCTGC	60
GGAAATGGCT	AAGATGCGCG	TGTTAGAACT	TGATTTGATG	AATGTCGTTG	CAGGGACACG	120
CTTCCGTGGT	GACTTTGAAG	AACGCATGAA	ТААТАТСАТС	AAGGATATTG	AAGAAGATGG	180
CCAAGTCATC	CTCTTTATCG	ATGAACTCCA	CACCATCATG	GGTTCTGGTA	GCGGGATTGA	240
TTCGACTCTG	GATGCGGCCA	ATATCTTGAA	ACCAGCCTTG	GCGCGTGGAA	CTTTGAGAAC	300
GGTTGGTGCC	ACTACTCAGG	AAGAATATCA	AAAACATATC	GAAAAAGATG	CGGCACTTTC	3.60
TCGTCGTTTC	GCTAAAGTGA	CGATTGAAGA	ACCAAGTGTG	GCAGATAGTA	TGACTATTTT	420
ACAAGGTTTG	AAGGCGACTT	ATGAGAAACA	TCACCGTGTA	CAAATCACAG	ATGAAGCGGT	480
TGAAACAGCG	GTTAAGATGG	CTCATCGTTA	TTTAACCAGT	CGTCACTTGC	CAGACTCTGC	540
TATCGATCTC	TTGGATGAGG	CGGCAGCAAC	AGTGCAAAAT	AAGGCAAAGC	ATGTAAAAGC	600
AGACGATTCA	GATTTGAGTC	CAGCTGACAA	GGCCCTGATG	GATGGCAAGT	GGAAACAGGC	660

			1386			
AGCCCAGCTA	ATCGCAAAAG	AAGAGGAAGT		AAAGACTTGG	TGACAGAGTC	720
TGATATTTTG	ACCACCTTGA	GTCGCTTGTC	AGGAATCCCA	GTTCAAAAAC	TGACTCAAAC	780
GGATGCTAAG	AAGTATTTAA	ATCTTGAAGC	AGAACTCCAT	AAACGGGTTA	TCGGTCAAGA	840
TCAAGCTGTT	TCAAGCATTA	GCCGTGCCAT	TCGCCGCAAC	CAGTCAGGGA	TTCGCAGTCA	900
TAAGCGTCCG	ATTGGTTCCT	TTATGTTCCT	AGGGCCTACA	GGTGTCGGGG	TATCCGA	957
(2) INFORM	ATION FOR SE	EQ ID NO: 37	72:	•		
	(A) LENGTH: (B) TYPE: nu	RACTERISTICS 807 base pa icleic acid DNESS: doub 7: linear	airs			
(xi)	SEQUENCE DES	SCRIPTION: S	SEQ ID NO: 3	372 :	•	
CAAAGCGCCT	CAGCTTCAGC	ATCAACAAGT	GCGTCGGCTT	CAGCATCAAC	CAGTGCCTCG	60
GCTTCAGCGT	CAACCAGTGC	GTCACATTCA	GCAAGTACCA	GTGCTTCAGT	CTCAGCATCA	120
ACAAGTGCTT	CAGCCTCAGC	ATCGACAAGT	GCCTCGGCTT	CAGCAAGCAC	ATCAGCATCT	180
GAATCAGCGT	CAACCAGTGC	TTCGGCTTCA	GCAAGTACCA	GTGCTTCAGC	TTCAGCATCA	. 240
ACCAGCGCCT	CGGCCTCAGC	AAGCACCTCA	GCTTCTGAAT	CGGCCTCAAC	CAGCGCCTCG	300
GCCTCAGCAA	GCACCTCAGC	TTCTGAATCG	GCCTCAACCA	GCGCCTCAGC	CTCAGCATCA	360
ACGAGTGCTT	CGGCTTCAGC	AAGCACAAGC	GCCTCGGGTT	CAGCATCAAC	GAGTACGTCA	420
GCTTCAGCGT	CAACCAGTGC	TTCAGCCTCA	GCATCAACAA	GTGCGTCAGC	CTCAGCAAGT	480
ATCTCAGCGT	CTGAATCGGC	ATCAACGAGT	GCGTCTGAGT	CAGCATCAAC	GAGTACGTCA	540
GCCTCAGCAA	GCACCTCAGC	TTCTGAATCG	GCCTCAACCA	GTGCGTCAGC	CTCAGCATCG	600
ACAAGCGCCT	CAGCTTCAGC	AAGTACCAGT	GCTTCAGCCT	CAGCGTCGAC	AAGTGCGTCG	660
GCCTCAACCA	GTGCATCTGA	ATCGGCATCA	ACCAGTGCGT	CAGCCTCAGC	AAGTACTAGT	720
GCATCGGCTT	CAGCATCAAC	CAGTGCCTCG	GCTTCAGCGT	CAACCAGTGC	GTCAGCTTCA	780

807

(2) INFORMATION FOR SEQ ID NO: 373:

GCAAGTACCA TGTGCTTCAT GTCTCAG

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1068 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

1387

				373:	NO:	SEQ ID	ON: S	CRIPTI	E DES	SEQUENC	(xi)	
CAGC	SCC TC	egee 1	TACCG	TACT	CAAG	CTTCA	TCCG	AGTGCG	AACG	AGCATC	GGCTTC	CATC
CAAC	GCA TC	AGCA T	GTCAG	TGAG	CGTC	CGAGT	TCAA	TCAGCG	GGCT	TGCATC	AACAAG	CGTC
ACCTO	CGT CA	GCGT C	AGTGC	ACCA	CATCA	ATCTG	CTGA	CAGCTT	ACAT	GCAAGC	ACCTCA	CGTC
CAAG	rcg ac	STCG A	AGCGT	CTCA	TCAC	AGTGC	TACC	AGCAAG	CTTC	CCTCAG	CAAGCG	rcga(
TCAG	CAC CTO	rcac c	GCGTC	AGTG	TACC	AGCAA	sCTC	GCGTCA	CAGT	AAGTAC	TTCAGC	CGGC
TCAC	rgc gt	STGC G	CCAGTO	CAAC	GCAT	GAATC	ATCT	CAGTGC	CAAC	CGGCCT	GTGCGT	ACAA
CAAC	GCA TC	AGCA T	TTCAG	GGCT	CATC	CGAGT	TCAA	TCAGCA	AGCT	TGCATC	PACTA G	CAAG
CGGC	GCC TC	rgcc t	AAGTG	AACA	CATC	CTTCC	TCAG	AGTGCG	TACC	AGCAAG'	AGAGTC	CATC
CAAC	GCG TC	CGCG T	TTCCG	AGCT	CTTC	CAAGT	TCAA	TCAGCG	AGCC	CGCCTC	PACTA G	CAAG'
CGGC	GCC TC	rgcc T	AAGTGG	AACA	CATC	AATCG	TCTG	TCAGCG	TATC	AGCAAG	GCCTC	CCTC
GCAC	GCA AGO	AGCA A	CTCAGO	GGCC	CGTC	CCAGT	AGCA	TCAGCA	AGTC	TGCATC	AACGAG	CATC
CTGAZ	GCA TC	AGCA T	CTCAGO	TACC	CAAG	CTTCA	TCAG	AGTGCC	AACC	CGCATC	IGAATC	CGTC
GTATO	GCA AG	AGCA A	CTCAGO	AGCC	CTTC	CAAGT	AGCA	TCAGCA	GGCT	TGCATC	AACAAG	CATC
CAGC	SCC TC	CGCC T	TAGCGG	TACT	CAAG	CTTCA	TCCG	AGTGCG'	AACG	GGCATC	rgaatc	CGTC
CAACO	CA TC	AGCA T	GTCAGG	TGAG	CGTC	CGAGT	TCAA	TCAGCG'	GGCT	TGCTTCC	AACAAG	CGTC
CAGCO	GCG TC	rgcg t	CAGTGO	AACC	CATC	AATCT	TCTG	TCAGCT'	CACA	AGCAAG	AGCCTC	GTC
GTACC	GCA AG	AGCA A	CTCAGO	AGCC	CCTC	CCAGT	AGTA	TCAGCA	AGCT	CGCCTC	GACAAG	CATC
	3	rg	ATCTG	TGCA	CCAG	GCTCA	TCGG	AGTGCG'	GACA	AGCGTCC	AGCCTC	TTC

(2) INFORMATION FOR SEQ ID NO: 374:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 620 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 374:

60	GCTTCAACAA	CTCTGAATCA	CAACCAGTGC	GTTTCAGCGT	GAGTGCTTCA	CAGCATCAAC
120	GCATCGGCTT	AAGTACTAGT	CGGCTTCAGC	CCCAGTGCGT	TTCAGCAAGC	GTGCCTCGGC
180	GCATCAACGA	TTCGGCTTCA	CAACGAGTGC	GAATCGGCAT	AAGTGCGTCT	CAGCATCGAC
240	GCGTCCGyTT	ATCAACCAGT	CTGAATCTGC	ACATCAGCTT	CTCAGCAAGC	GTGCGTCAGC

			1388			
CAGCGTCAAC (CAGTGCGTCG	GCTTCAGCGT	CGACAAGTGC	TTCGGCTTCA	GCATCAACGA	300
GTGCGTCGGC (CTCAGCAAGC	GCAAGTACCT	CAGCGTCAGC	TTCCGCCTCA	ACCAGTGCGT	360
CGGCTTCAGC	AAGCACAAGT	GCGTCAGCCT	CAGCAAGTAT	CTCAGCGTCT	GAATCGGCAT	420
CAACGAGTGC (GTCTGAGTCA	GCATCAACGA	GTACGTCAGC	CTCAGCAAGC	ACATCAGCTT	480
CTGAATCTGC	ATCAACCAGT	GCGTCAGCCT	CAGCATCGAC	AAGCGCCTCA	GCTTCAGCAA	540
GTACCAGTGC 7	FTCAGCCTCA	GCGTCGACAA	GTGCGTCGGC	CTCAACCAGT	GCATCTGAAT	600
CGGCATCAAC (CAGTGCGTCA					620
(2) INFORMA	rion for se	Q ID NO: 37	75:			
(7 (1 (0	A) LENGTH: B) TYPE: nu	ACTERISTICS 720 base pa Icleic acid NESS: doubl ': linear	airs			
(xi) SI	EQUENCE DES	SCRIPTION: S	SEQ ID NO: 3	375:		
GTATTGGGGC (CCCCAACCT	CTATGTGACT	ACGGATTATT	TCCTAGATTA	CATGgGGATA	60
AACCATTTAG A	AAGAATTACC	AGTGATTGAT	GAGCTTGAGA	TTCAAGCCCA	AGAAAGCCAA	. 120
TTATTTGGTG /	AAAGGATAGA	AGAAGATGAG	AATCAATAAG	TATATTGCCC	ACGCAGGTGT	180
GGCCAGTAGG A	AGAAAAGCAG	AAGAGCTGAT	TAAGCAAGGC	TTGGTGACGG	TTAACGGCCA	240
AGTGGTGCGT (GAACTAGCAA	CCACTATCAA	GTCAGGCGAC	AAGGTCGAAG	TTGAAGGTCA	300
ACCTATCTAC A	AACGAAGAAA	AGGTCTACTA	TCTGCTTAAC	AAACCACGCG	GTGTGATTTC	360
CAGTGTGACA (GATGATAAGG	GTCGCAAGAC	GGTTGTCGAC	CTCTTGCCCA	ATGTCAAAGA	420
GCGTATTTAC (CCTGTGGGTC	GTTTGGACTG	GGATACATCA	GGTGTCTTGA	TTTTGACCAA	480
TGATGGGGAC 1	PTTACAGACG	AGATGATTCA	CCCTCGTAAT	GAGATTGACA	AGGTTTATGT	540
CGCGCGTGTT I	AAAGGTGTGG	CCAATAAGGA	CAATCTCCGC	CCCTTGACCC	GTGGTCTTGA	600
GATTGATGGT A	AGAAAACCA	AGCCATAATA	TATAGGTTTT	GTAGCCTCTA	CACCATAAAT	660
ATTTGCTAAT A	AAAAATACTG	TATTATTACC	CTCTTAAGGT	GCGAAATTAT	TCAAGTTCTT	720

- (2) INFORMATION FOR SEQ ID NO: 376: (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 648 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

1389

(xi)	SEQUENCE DE	SCRIPTION:	SEQ ID NO:	376:		
CGCCATTTC	C CATCGTACCG	CCGAAAATCC	CAGCGCCTCA	GCCATCAAAT	ATCCTATCAA	60
CGTTCTCAA	A AAAAGTGACC	GCTCTCTCAT	CATGTTTCCA	AGTGGTAGCC	GCCACTCAAA	120
CGATGTCAA	G GGGGGCGCAC	ACTSKATTGC	CAAAATGGCC	AAGGTCCGTA	TCATGCCGGT	180
TACCTACAC	C GGTCCCATGA	CTTTGAAGGG	CTTGATTAGC	CGTGAACGTG	TCGATATGAA	240
CTTTGGAAA	T CCAATCGATA	TCTCAGATAT	CAAGAAAATG	AATGATGAAG	GCATTGAAAC	300
AGTCGCCAA	T CGTATTCAAA	CAGAATTCCA	ACGTCTGGAC	GAAGAAACGA	AACAATGGCA	360
CAATGATAA	A AAACCAAATC	CACTCTGGTG	GTTTATCCGC	ATCCCTGCCC	TCATCCTTGC	420
TATTATCCT	C GCTATCCTAA	CCATCATCTT	TAGCTTTATC	GCAAGCTTCA	TCTGGAACCC	480
AGATAAGA.A	A AGAGAAGAAC	TTGCATAGAA	GAAATGAACC	TTGGCCAAAC	AGCTAAGGTT	540
ТТСАТТТАТ	'A TAGTAGATTG	GWACTAGAAT	AGTACACCTC	TACTTCTAAA	ACATTTTTAG	600
AAATCGATT	T GACTGTCCTG	ATCGATTTGT	ССТААТСТТА	TTTCAATT		648
(2) TNEOD	MARTON FOR C	EO TR NO. 3	77 .			

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 690 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 377:

GTGCATCGCT	TTCAGCATCG	ACAAGTGCGT	CTGAATCGGC	ATCAACGAGT	GCTTCGGCTT	60
CAGCATCAAC	GAGTGCGTCA	GCTTCAGCAA	GCACATCAGC	TTCTGAATCT	GCATCAACCA	120
GTGCGTCCGC	TTCAGCGTCA	ACCAGTGCGT	CGGCTTCAGC	GTCGACAAGT	GCTTCGGCTT	180
CAGCATCAAC	GAGTGCGTCG	GCCTCAGCAA	GCGCAAGTAC	CTCAGCGTCA	GCTTCCGCCT	240
CAACCAGTGC	GTCCGCTTCA	GCAAGCACAA	GTGCGTCAGC	CTCAGCAAGT	ATCTCAGCGT	300
CTGAATCGGC	ATCAACGAGT	GCGTCGGCCT	CAGCAAGCGC	AAGTACCTCA	GCGTCAGCTT	360
CCGCCTCAAC	CAGTGCGTCG	GCTTCAGCAA	GCACAAGTGC	GTCAGCCTCA	GCAAGTATCT	. 420
CAGCGTCTGA	ATCGGCATCA	ACGAGTGCGT	CTGAGTCAGC	ATCAACGAGT	ACGTCAGCCT	480
CAGCAAGCAC	ATCAGCTTCT	GAATCGGCAT	CAACCAGTGC	GTCAGCCTCA	GCATCGACAA	540
GCGCCTCAGC	TTCAGCAAGT	ACCAGTGCTT	CAGCCTCAGC	GTCGACAAGT	GCGTCGCCCT	600
CAACCAGTGC	ATCTGAATCG	GCATCAACCA	GTGCGTCAGC	CTCAGCAAGT	ACTAGTGCAT	660

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1390

CAGCTTCAGC ATCAACGAGT GCATCGGCTT

690

(2) INFORMATION FOR SEQ ID NO: 378:

- (i) SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 1003 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 378:

CGAGATTCTC	TGGAGTTATG	GATGTCGTTC	CAATATGTGC	ACGTTGGAAT	GTTAGTGCTT	60
ATATGGGGGG	AACAGAATCC	TCTCTTGATT	GAAGACAAGC	TAGTCATTAG	GCTGGTTTGT	120
CTTTTTGTCA	ACTGTAGTGG	GTTGATATAA	TAGTATTAGT	GAGTGGGATA	AAAGTTTCAT	180
TTAGTTTATT	CAGTACAAAT	TTAACGGGTC	AAGATTTATA	TACTAGTGGT	GTTTTTGGGG	240
CTGAGAGAAG	TATCTTGATT	TTATGTGTGG	TTTTTATACT	TACAGTTGTT	CTGCTCCAAA	300
GAGCTTGTAG	AGAAGAATTA	GCTCATAAAG	GAGATTGATT	ATTTTGATAT	CAAAAAAATG	360
CACAGGATAA	CCTGATGCAT	TTTTTTAGCG	ACAATGCTTG	CTACTTCCTT	CTGTCGAATT	420
TAGACAATTT	TAAACCCCAA	TTATTCACCC	CAAATCTAAA	AACCATCCAG	AATCCTTGCC	480
TTAGCTTAGA	TCCTGGATGG	TTTCTTTTT	CACCCAATGG	GTGTTTTTA	CTAGACAAAA	540
AAGAGTTTCC	CCTTTATGGT	ATAAGTGTAG	AAAAAAACAC	AAAAAGAAAG	GAAACTCACA	600
TGAACAGTTT	ACCAAATCAT	CACTTCCAAA	ACAAGTCTTT	TTACCAACTA	TCTTTCGATG	660
GAGGTCATTT	AACCCAGTAT	GGTGGTCTTA	TCTTTTTTCA	GGAACTTTTT	TCCCAGTTGA	720
AACTAAAAGA	GCGGATTTCT	AAGTATTTAG	TAACGAATGA	CCAACGCCGC	TACTGTCGTT	780
ATTCGGATTC	AGATATCCTT	GTCCAGTTCC	TCTTTCAACT	GTTAACAGGT	TATGGAACGG	840
ACTATGCTTG	TAAAGAATTG	TCAGCTGATG	CCTACTTTCC	AAAATTATTG	GAAGGAGGC	900
AGCTTGCTTC	ACAGCCAACC	TTATCCCGTT	TTCTTTCCAG	AACTGACGAG	GAAACAGTCC	960
ATAGTTTGCG	ATGCCTCAAC	CTTGAATTGG	TCGAATTCTT	TTT		1003

(2) INFORMATION FOR SEQ ID NO: 379:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 738 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 379:

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CCGATGATTC	TGATTGGTTT	GCTCTTTACT	TTGCTGGGAA	TTTTGAGGTA	GATCTATGAT	60
TGAAATACTA	ATTGTTTTAG	CTATTATCCT	ATCTCTTGCT	TTGATTGTAT	TGGTAACTAT	120
ACAACCCCGT	CAAAATCAAC	TATTTTCCAT	GGATGCCACT	AGTAATATTG	GTAAACCAAG	180
CTACTGGCAG	AGCAACACCT	TGGTCAAGGT	GCTCACTTTA	TTGGTGAGTT	TGGCTTTATT	240
ТАТТСТАСТА	TTAACCTTTA	TGGTGATTAC	TTATAAATAA	AAGAAAACTT	CAGATATTCA	300
CCTTTTGTGG	ATTGGTCTGA	AGTTTTCTTT	TTTATACTCA	ATGAAAATCA	AAGAGCAAAC	360
TAGGAAGCTA	GCCGCAckGC	TCAAAACACC	GTTTTGAGGT	TGTAGATATA	ACTGACGAGC	420
GACTCAAAAC	ACCGTTTTGA	GGTTGTAGAT	ATAACTGACG	AGCGACTCAA	AACACCGTTT	480
TGAGGTTGTG	GATAGAACTG	ACGAGCGACT	CAAAACACCG	TTTTGAGGTT	GTGGATAGAA	540
CTGACGAAGT	CGcTCAAAAC	ACCGTTTTGA	GGTTGTGGAT	AGAACTGACG	AAtgctCAAA	600
ACACCGTTTT	GAGGTTGTGG	ATAGAACTGA	CGAAGCgaaC	ATATATACAG	CAAGGCGACG	660
CTGACGTGGT	TTGAAGAGTA	TTACTGTCTA	TATTTTTGGT	AAAAATCAAC	TTTTACTTGG	720
ATGAAGGTTT	TTTTTTT					738

(2) INFORMATION FOR SEQ ID NO: 380:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 695 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 380:

CCGTCTTA	TC AAA	GAGGTTA	ACAAAGGCAC	CAAATTTCTC	GATACGAACG	ACTTTAGCAC	60
GGTAAACT	TC ATC	CACTTTG	GCTTCACGAA	CCAAACCAGC	AATAATTTCT	TTGGCACGGT	120
TAATAGCA	TC TTG	GTCACTA	GAGTAGATAG	ACACATTTCC	TTCTTCGTCT	ATATCAATCT	180
TAACACCT	GT TTC	AGCGATA	ATCTTGTCGA	TGGTTTCTCC	ACCCTTACCG	ATGACAATCT	240
TAATCTTG	TC CAC	ATCAATC	TTGATCGTAT	CAATTTTCGG	AGCAGTTGGA	GCCAATTCTG	300
GACGAACT	TC TGG/	AATGGT T	GCTTCAATGA	CATCAAGGAT	TTCAAAACGC	GCTTTCTTGG	360
CTTGAGCA	AG AGC	CTCCGTC	AAGATTTCTG	CAGTAATCCC	TTGAATCTTG	ATATCCATTT	420
GAAGGGCT	GT AATO	CCCATCA	CGAGTACCTG	CAACCTTGAA	GTCCATATCT	CCAAAGTGAT	480
CTTCCAAA	CC TTG	GATATCT	GTCAATACTG	TGTAGTTATT	TCCATCTGAG	ATAAGCCCCA	540
TAGCAATA	CC AGC	PACTGGC	GCCTTGATTG	GCACACCACC	AGCCATAAGG	GCAAGAGTTC	600

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1392 CCGCACAGAT AGAAGCTTGA GATGAAGAAC CGTTTGATTC CAAAACTTCT GCTACTAGAC	660
GGATAGCGTA GGGGAATTCT TCCAAGCTTG GCAGG	695
(2) INFORMATION FOR SEQ ID NO: 381:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 691 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 381:	
GACATCTTAT CTAAATACAT GCTAATATAT TTAGATACAA ACATTCCAAC TTGATAATTT	60
TCACTCATCT TTCATCATTC CTTATACAAC TATGCAGTAT AAATAGAATA GTTTTCTCAT	120
CAGAATGAGA CTATTTTAAT ATTAGATCCC CAATTATTCA CCCCAAATCT AAAAACCATC	180
CAGAATCCTT GCCTTAGCTT AGATCCTGGA TGGTTTCTTT TTTCACCCAA TGGGTGTTTT	240
TTACTAGACA AAAAAGAGTT TCCCCTTTAT GGTATAAGTG TAGAAAAAAA CACAAAAAGA	300
AAGGAAACTC ACATGAACAG TTTACCAAAT CATCACTTCC AAAACAAGTC TTTTTACCAA	360
CTATCTTTCG ATGGAGGTCA TTTAACCCAG TATGGTGGTC TTATCTTTTT TCAGGAACTT	420
TTTTCCCAGT TGAAACTAAA AGAGCGGATT TCTAAGTATT TAGTAACGAA TGACCAACGC	480
CGCTACTGTC GTTATTCGGA TTCAGATATC CTTGTCCAGT TCCTCTTTCA ACTGTTAACA	540
GGTTATGGAA CGGACTATGC TTGTAAAGAA TTGTCAGCTG ATGCCTACTT TCCAAAATTG	600
TTGGAAGGAG GGCAGCTTGC TTCACAGCCA ACCTTATCCC GWTTTCTTTC CAGAACTGAC	660
GAGGAAACAG TCCATAGTTT GCGATGCCTC A	691
(2) INFORMATION FOR SEQ ID NO: 382:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 750 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 382:	
ATCTCTCTGC GTAATGGTCC TCAGATAACT CTGATGATGT GTGGCGATAT AGAACTGAGC	60
CAAGTTATGC CTAAAGGGCC TTAGGAATAG GAGCTTTCAC AAGCTTATCC AGATGATTAT	120

CTTTTACTCG TTATGGACAA TGCTATATGG CATAAATCAA GTACCTTAAA GATTCCGACT

AATATTGGCT TTGCATTTAT TCCTCCATAC ACACCAGAGA TGAACCCCAT TGAACAAGTG

180

1393

ATACAAGGAC TGGAGAAGGA GGTGATAAAG TCCATCGTTA ATCGGAGACG GACTAGAATG CTTTTTGAAA ACAGATGAGT ATAAAAAGAA AGTCCTCATT TCAATAGAAA TCACGACTTT CTGATGAATT TATAGTAAAA TGAAATAAGA ACAGGATAGT CAAATCGATT TCTAACAATG	
CTTTTTGAAA ACAGATGAGT ATAAAAAGAA AGTCCTCATT TCAATAGAAA TCACGACTTT CTGATGAATT TATAGTAAAA TGAAATAAGA ACAGGATAGT CAAATCGATT TCTAACAATG	300
CTGATGAATT TATAGTAAAA TGAAATAAGA ACAGGATAGT CAAATCGATT TCTAACAATG	360
	420
TTTTAGAAGC AGAGGTGTAC TATTCTAGTT TAAATCCACT ATATTTGGGG AGTGATAGAA	480
	540
AAGCCCTTCA TCAGCCAATC TACTTGTTCA GGTGCGAGAG CTTTGACATC CTTTTCTGTA	600
CTGGACCAAG TCAGTTTTCC GTTCTCAAAG CGTTTATATA ATATCCAAAA TCCTTGACCA	660
TCCCAGTAAA GAACTTTAAA GCGGTCTTTA CGTCCACCAC AAAAGAGAAA GACTTGATCG	720
GAGAAAGGAT CCAATTCAAA GTGGGTTTGG	750
(2) INFORMATION FOR SEQ ID NO: 383:	

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 738 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 383:

TCAAATTCTT	CGTGGTCCGC	ATATCTnTCT	TCGTACACGG	CAGTCACTTG	GTCTTTCACT	60
ACTCGAGTCG	CAGCTTCACG	GGCCAATTTC	TCTTCTACTT	GAACTGCCTT	TTGGAGGTCA	120
CTGTTGTAGG	CTGCAATGAT	TTCAGCTTGC	AATTCAGCAT	CCACGTGAAG	CAATTCCACT	180
TCTGCTTTTT	CTTTACCGAC	AGCAGCAACG	ATTTCTTCTT	GGAAGGCAAT	CAATTCTTTG	240
ACAGCTTCGT	GCCCTTTAAG	GAGCGCTTCC	AACATGATTT	CTTCTGACAA	TTCTTTGGCA	300
CCAGACTCTA	CCATGTTGAT	AGCGTGCTTG	GTTCCAGCTA	CTGTCAATTC	AAGAAGAGAT	360
TGCTCTGCTT	GTTCTTGACT	TGGGTTGATG	ATGATTTGGC	CATCTACATA	TCCCACTTGT	420
ACCCCAGCAA	TTGGTCCGTC	AAATGGAATA	TCTGAAATAG	ACAGTGCCAA	AGATGAACCA	480
AACATAGCAG	CCATTGGTGC	AGATGCATTT	TCATCATAAG	AAAGCACTGT	ATTGATGACT	540
TGGACTTCAT	TACGGAAACC	TTCCGCAAAC	ATAGGACGAA	TCGGACGGTC	AATCAAACGC	600
GCTGTCAAGG	TCGCATCTGT	TGAAGGACGT	CCTTCACGTT	TCATAAAGCC	ACCAGGAAAC	660
TTCCCAGCCG	CATACATTTT	TTCTTCGTAG	TTGACTTGGA	GTGGGAAGAA	ATCCTCAGTT	720
GCCATTTTCT	GGGGATCC					738

(2) INFORMATION FOR SEQ ID NO: 384:

(i) SEQUENCE	CHARACTERISTICS:
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(A) LENGTH: 657 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 384:

CCCCCTATTT ACCGTGGACT AF	AAGTTGTAC	AAGAAAAGTG	CAAATAAGAA	ATCTCCAGAT	60
TAGGAACTAT ATATGAGTTC TO	CTAGTCTGG	AGATTTTTCA	ATAGACTTCG	TTATTGGGCG	120
GTTACTTTCG AAACTTTGAA AA	ACTTCAAAA	AACGGATTTT	TATCGCTTTC	AAATTCTTTT	180
GGGGTCAAAC TCAGTAACTT AT	TTCGCCTTG	TAGACTTCAT	GACGCTCAGG	GTATACTTTC	240
AAGGTCCCAA ATAGCCAAGA AT	TCGTCAGCG	ATATTATCTG	AATCATCTCC	TTCTTGTTCT	300
CCTTTAGTTC GCCTGAGGAC AG	GCCTTGACA	CGCGCCAGAA	TTCTCTAGGG	CTAAAAGGCT	360
TGGTCAGGTA GTCATCAGCC CC	CTAATTCCA	AGGCCAAAAC	СТТАТСАААТ	TCATCACTTT	420
TCGCAGAAAC CATCATAATT GC	GAGTTTTGA	CGCCTTTGGC	TCTCAGCCGC	TTACAAACTT	480
CCATGCCATC TAATTGTGGT AA	ACATGATAT	CAAGCAAGAT	AAAATCAAAG	GGTTCTGTTT	540
CTGCCAAAGC TAAGGCCTTC CC	GTCCATTTG	TCACCAATTG	AGTAGAAAAG	CCTTCCTTAC	600
TTAAATGGTA GTCAAGCAAT TT	TCAGAATGT	GTTCTTCATC	ATCCACTAAT	AAGACTT	657
(2) INFORMATION FOR SEQ ID NO: 385:					

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 586 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 385:

CCGCAT	CAGC	ATCAACGAGT	GCATCGGCTT	CACGTCAACC	AGTGCATCAG	TCTCAGCAAG	60
CACCAC	STGCG	TCGGCTTCAG	CATCAACGAG	TGCCTCAGCC	TCAGCAAGTA	TCTCAGCGTC	120
TGAATO	CGGCA	TCAACGAGTG	CGTCAGCTCA	GCAAGTACTA	GTGCATCGGC	TTCAGCAAGC	180
ACCAGI	rgcgt	CGGCTTCAGC	ATCAACCAGT	GCCTCAGCCT	CAGCAAGTAT	CTCAGCGTCT	240
GAATCO	GCAT	CAACGAGTGC	GTCACCTCAG	CAAGTACTAG	TGCATCAGCA	TCAGCATCAA	300
CGAGTO	CATC	GGCTTCAGCA	AGTACCAGCG	CCTCAGCTTC	AGCAAGCACC	AGTGCGTCAC	360
CTCAGO	CAAGT	ACCAGCGCCT	CAGCCTCAGC	AAGCACCAGT	GCCTCAGCTT	CAGCAAGTAC	420
CAGTGO	CGTCA	CCTCAGCATC	GACAAGTGCG	TCGGCTTCAG	CAAGTACCTC	AGCGTCTGAA	480

TCAGCATCAA CGAGTGCGTC AGCTTCAGCA TCAACCAGTG CCTCAGCCTC AGCAAGTATC	540
AGTGCGTCAG CTTCAGCATC AACGAGTGCG TCAGCTGCAG CAAGTA	586
(2) INFORMATION FOR SEQ ID NO: 386:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 451 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 386:	
CGTCGGCTTC AGCATCAACG AGTGCATCAG CTTCAGCATC AACAAGTGCT TCAGCTTCAG	60
CAAGTACCAG TGCGTCGGCT TCAGCATCAA CGAGTGCTTC AGTCTCAGCG TCAACCAGTG	120
CCTCTGAATC CGCATCAACA AGTGCCTCGG CTTCAGCAAG CACCAGTGCT TCGGCTTCAG	180
CGTCAACGAG TGCGTCTGAG TCAGCATCAA CGAGTGCGTC ACCTCAGCAA GCACATCAGC	240
TTCTGAATCT GCATCAACCA GTGCGTCAGC TTCCGCATCA ACAAGCGCCT CGGCCTCAGC	300
AAGTACAAGT GCTTCAGCCT CAGCATCAAC CAGTGCATCA GCTTCAGCCT CAACAAGTGC	360
TTCAGCCTCA GCGTCAACCA GTGCCTCGGC TTCAGCAAGT ACCAGTGCGT CAGTTCAGCA	420
AGCACAAGTG CGTCAATTTA GCATCAACCA G	451
(2) INFORMATION FOR SEQ ID NO: 387:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 425 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 387:	
TCTCÁGCAAG CACCATTGCG TCGGCTTCAT CAAGCACCAG CGCGTTTGAA TCCGCATCAA	60
CCAGTGCTTC AGCTTCAGCC AAGTTACCTC AGCATCTGAA TCAGCATCAA CAAGTGCATC	120
GGCTTCAGCA AGCACAAGTG CTTCAGCLCA GCAAGTATCT CAGCGTCTGA ATCGGCATCA	180
ACGAGTGCGT CCGCTTCAGC AAGTACTAGC GCCTCAGCAT CAGCGTCAAC AAGTGCTTCG	240
GCTTCAGCGT CAACGAGTGC GTCTGAGTCA GCATCAACGA GTACGTCAGC CTCAGCAAGC	300
ACATCAGCTT CTGAATCTGC ATCAACCAGT GCGTCAGCCT CAGCATCGAC AAGCGCCTCA	360
GCTTCAGCAA GTACCAGTGC GTCAGCCTCA GCAAGTACCA GTGCTTCAGC CTCAGCGTCG	420

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420

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ACAAG	42
(2) INFORMATION FOR SEQ ID NO: 388:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 572 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 388:	
AGAGGATCCC CGGATCCTCA GTCGCTGAGA TAACTCCTTT GGGCTTGTTC ATCATGTAGT	6
AGACAAACTC TTCATACTCC AACACTTGCC CATTTTATGC GAATCTCATC TATTTTTTCT	12
TTTTTTTGCA ATTTAGCTGA TTTTTCTTTT TTACCATTTA CAGTCACGCG CCCAGCCTTG	18
AGCAAGTTTT TGACCTCAGT CCGACTTCCC ACCGCACAGG CAACTAAAAA TTTATCTAAT	24
CTCATAGAAC TATTATATCA TATCAAAAGG AGGCTAGTAC AATGACCAAC CTCCTTTTCG	30
TTTCATACTC TTCAAAAATC TCTTCAAACC GCGTCAACGT CGCCTTGCCG TATATATGTT	36
ACTGACTTCG TCAGTTCTAT CTGCAACCTC AAAACAGTGT TTTGAGCTGA CTTCGTCAGT	42
TCTATCTGCA ACCTCAAAGC AGTGCTTTGA GCATCCTGCG GCTAGTTTCC KAGTKTGCTC	48
TTTGATTTWC ATTGAGTATC AGATTTAGGA AATTAACTTC CTCGKCTCCA AAAAAKAGCT	54
AAAACAATCA AGGCTCCTAA AATCGCTGGG AT	57
(2) INFORMATION FOR SEQ ID NO: 389:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 505 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 389:	
CAACAAGTGC CTCGGCTTCA GCATGCACAA GTGCTTCAGC TTCAGCATGT ACCTGAGCGT	60
CTGAATCAGC ATCAACGTGT GCGTCCGCTT CAGCATGTAC TGCTGCCTCA GCATCAGCGT	120
CAACAWGTGC TTCGGCTTCA GCGTCAACGA GTGCGTCTGA GTCAGCATCA ACGAGTACGT	180
CAGCCTCAGC AAGCACATCA GCTTCTGAAT CTGCATCAAC CAGTGCGTCA GCCTCAGCAT	240
CGACAAGCGC CTCAGCTTCA GCAAGTACCA GTGCGTCAGC CTCAGCAAGT ACCAGTGCTT	300

CAGCCTCAGC GTCGACAAGT GCGTCGGCCT CAACCAGTGC ATCTGAATCG GCATCAACCA GTGCGTCAGC CTCAGCAAGT ACTAGCGCCT CAGCCTCAGC ATCAACGAGT GCGTCCGCTT

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CAGCAAGTAC TAGTGCATCA GCATCAGCAT CAACGAGTGC ATCGGCTTCA GCAAGTACCA	480
GCGCCTCAGC TTCAGCAAGC ACCGG	505
(2) INFORMATION FOR SEQ ID NO: 390:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 447 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 390:	
GCTAAGACTA CCTCATTAGG GGCATAGGCT GCTAAAATAA CTGCAGCTGT GGTTAATGAC	60
AATACTGTAC TTTTTTCAT TTTAATTCCT TACATATTTA TATAACTTCC AATAGATAAT	120
AAACTTTAAC TTTGCTAGCC TTTGTTATAA AAAGTTTTAC TAAGTATTAT CTAGGAAATA	180
GAGTAGTACA TTTATATATA ATTGTTATCT CTCTATAAAA ACAGTATATC ATTTAAAAAA	240
ATTTAAGTCA AAAAAATTAA CATTAGTTAA TTTATTTTTT AGCACACATT AAAAAATAAG	300
ATTAGTACTC AATGAAAATC AAAGAGCAAA CTAGGAAACT AGCCGCAGAT TGCTCAAAAC	360
AGTGTTTTGA GGTTGTAGAT GGAATGACGT AGTCAGCTCA AAACACTGTT TTGAAGTTGT	420
GGATAGAACT GACGAAGTCG GTACCGA	447
(2) INFORMATION FOR SEQ ID NO: 391:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 572 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 391:	
AGCACTTGTC GTTGAATTCT ACAACAAAAT GTTGTAATAT TTTATTGAAT AAGATAGGCC	60
TTGATATTAA GCACTTTGGG ACGTTCTCCC TTAGTGCTTT TTTGATTTCT CTTAGTATCC	120
AGCTATAATC GTTGAGACAT AACTAGACCG ATATAGTCCA AAGTGATATA GTAAAATGAA	180
CCAAAAATAG TACACAATGT GGTATAATCC TTTTATGGCA TATTCAATAG ATTTTCGTAA	240
AAAAGTTCTC TCTTATTGTG AGCGAACAGG TAGTATAACA GAAGCATCAC ACGTTTTCCA	300
AATCTCACGT AATACCATTT ATGGCTGGTT AAAGCTAAAA GAGAAAACAG GAGAGCTAAA	360
CCACCAAGTA TAGTGTATTG AATCTATAAC AGTACACCTT GGCTGCTAAA ATATTTCTAT	420

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	1398			
AAATTAATTT GACTTTCCTG ATA	AGAGATGT TCACATCTTA	TTTCAAACTA	CTATATAAGT	480
TCTATAATCT CTTTATAAGA TT	IGCCCATC AGACAAAATA	GAACGATTTG	AAGGCGTTTA	540
TGATATTTAG CTGTACGAGA GTG	CTTTTAAA AG	•		572

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MISSING UPON TIME OF PUBLICATION

1400

DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person approved by the applicant in the individual case.

SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PUT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by the applicant in the individual case.

UNITED KINGDOM

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the International publication of the application.

NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapse, the microorganism shall be made available as provided in Rule 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever two dates occurs earlier.

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SINGAPORE

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for international publication of the application.

NORWAY

The applicant hereby requests that, until the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegians Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

AUSTRALIA

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

FINLAND

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Registration), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

ICELAND

The applicant hereby requests that, until the application has been laid open to public inspection (by the Icelandic Patent Office), or has been finally decided upon by the Icelandic Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected in the art.

1402

What Is Claimed Is:

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1. Computer readable medium having recorded thereon the nucleotide sequence depicted in SEQ ID NOS:1-391, a representative fragment thereof or a nucleotide sequence at least 95% identical to a nucleotide sequence depicted in SEQ ID NOS:1-391.

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2. Computer readable medium having recorded thereon any one of the fragments of SEQ ID NOS:1-391 depicted in Tables 2 and 3 or a degenerate variant thereof.

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3. The computer readable medium of claim 1, wherein said medium is selected from the group consisting of a floppy disc, a hard disc, random access memory (RAM), read only memory (ROM), and CD-ROM.

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4. The computer readable medium of claim 3, wherein said medium is selected from the group consisting of a floppy disc, a hard disc, random access memory (RAM), read only memory (ROM), and CD-ROM.

5. A computer-based system for identifying fragments of the *Streptococcus* pneumoniae genome of commercial importance comprising the following elements:

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a) a data storage means comprising the nucleotide sequence of SEQ ID NOS:1-391, a representative fragment thereof, or a nucleotide sequence at least 95% identical to a nucleotide sequence of SEQ ID NOS:1-391;

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b) search means for comparing a target sequence to the nucleotide sequence of the data storage means of step (a) to identify homologous sequence(s), and

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c) retrieval means for obtaining said homologous sequence(s) of step (b).

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6. A method for identifying commercially important nucleic acid fragments of the *Streptococcus pneumoniae* genome comprising the step of comparing a database comprising the nucleotide sequences depicted in SEQ ID NOS:1-391, a representative fragment thereof, or a nucleotide sequence at least 95% identical to a nucleotide sequence of SEQ ID NOS:1-391 with a target sequence to obtain a nucleic acid molecule comprised of a complementary nucleotide sequence to said target sequence, wherein said target sequence is not randomly selected.

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- 7. A method for identifying an expression modulating fragment of Streptococcus pneumoniae genome comprising the step of comparing a database comprising the nucleotide sequences depicted in SEQ ID NOS:1-391, a representative fragment thereof, or a nucleotide sequence at least 95% identical to the nucleotide sequence of SEQ ID NOS:1-391 with a target sequence to obtain a nucleic acid molecule comprised of a complementary nucleotide sequence to said target sequence, wherein said target sequence comprises sequences known to regulate gene expression.
 - 8. An isolated protein-encoding nucleic acid fragment of the *Streptococcus* pneumoniae genome, wherein said fragment consists of the nucleotide sequence of any one of the fragments of SEQ ID NOS:1-391 depicted in Tables 2 and 3, or a degenerate variant thereof.
 - 9. A vector comprising any one of the fragments of the *Streptococcus* pneumoniae genome SEQ ID NOS:1-391 depicted in Tables 2 and 3 or a degenerate variant thereof.
 - 10. An isolated fragment of the *Streptococcus pneumoniae* genome, wherein said fragment modulates the expression of an operably linked open reading frame, wherein said fragment consists of the nucleotide sequence from about 10 to 200 bases in length which is 5' to any one of the open reading frames depicted in Tables 2 and 3 or a degenerate variant thereof.
 - 11. A vector comprising any one of the fragments of the *Streptococcus* pneumoniae genome of claim 8.
 - 12. An organism which has been altered to contain any one of the fragments of the *Streptococcus pneumoniae* genome of claim 8.
 - 13. An organism which has been altered to contain any one of the fragments of the *Streptococcus pneumoniae* genome of claim 10.

- 14. A method for regulating the expression of a nucleic acid molecule comprising the step of covalently attaching to said nucleic acid molecule a nucleic acid molecule consisting of the nucleotide sequence from about 10 to 100 bases 5' to any one of the fragments of the *Streptococcus pneumoniae* genome depicted in SEQ ID NOS:1-391 and Tables 2 and 3 or a degenerate variant thereof.
- 15. An isolated nucleic acid molecule encoding a homolog of any of the fragments of the *Streptococcus pneumoniae* genome of SEQ ID NOS:1-391 and Tables 2 and 3, wherein said nucleic acid molecule is produced by a process comprising steps of:
- a) screening a genomic DNA library using as a probe a target sequence defined by any of SEQ ID NOS:1-391 and Tables 2 and 3, including fragments thereof;
- b) identifying members of said library which contain sequences that hybridize to said target sequence; and
- c) isolating the nucleic acid molecules from said members identified in step (b).

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16. An isolated DNA molecule encoding a homolog of any one of the fragments of the *Streptococcus pneumoniae* genome of SEQ ID NOS:1-391 and Tables 2 and 3, wherein said nucleic acid molecule is produced a process comprising steps of:

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- a) isolating mRNA, DNA, or cDNA produced from an organism;
- b) amplifying nucleic acid molecules whose nucleotide sequence is homologous to amplification primers derived from said fragment of said Streptococcus pneumoniae genome to prime said amplification;
 - c) isolating said amplified sequences produced in step (b).

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17. An isolated polypeptide encoded by any of the fragments of the *Streptococcus pneumoniae* genome of SEQ ID NOS:1-391 and depicted in Table 2 and 3 or by a degenerate variant of said fragments.

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18. An isolated polynucleotide molecule encoding any one of the polypeptides of claim 17.

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19. An antibody which selectively binds to any one of the polypeptides of claim 17.

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20. A method for producing a polypeptide in a host cell comprising the steps of:

- a) incubating a host containing a heterologous nucleic acid molecule whose nucleotide sequence consists of any one of the fragments of the *Streptococcus pneumoniae* genome of SEQ ID NOS:1-391 and depicted in Tables 2 and 3, under conditions where said heterologous nucleic acid molecule is expressed to produce said protein, and
 - b) isolating said protein.

Figure 1 Removable Storage Medium Secondary Storage Devices 110 Removable Medium Storage Device Hard Drive Majn Memory Processor Computer System 102 104 BUS

AB 373 and 377

Figure 2

